Figure 1

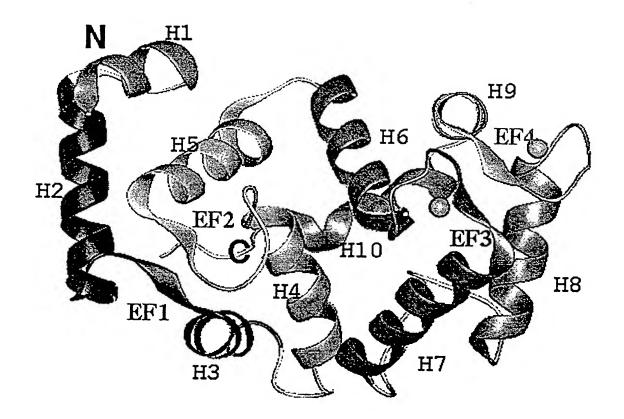


Figure 2

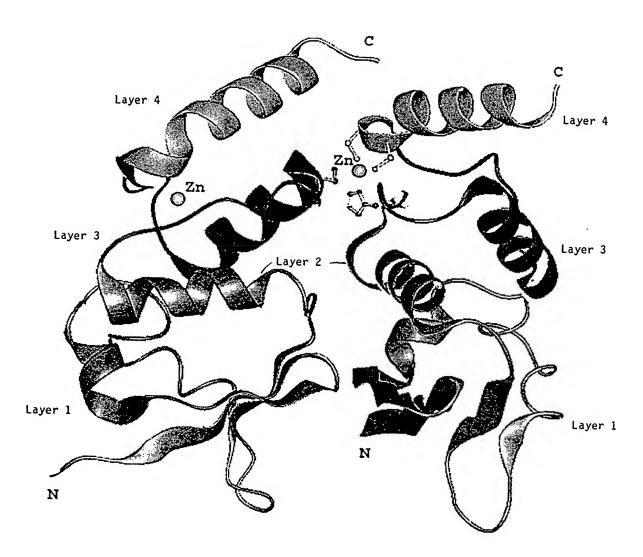


Figure 3

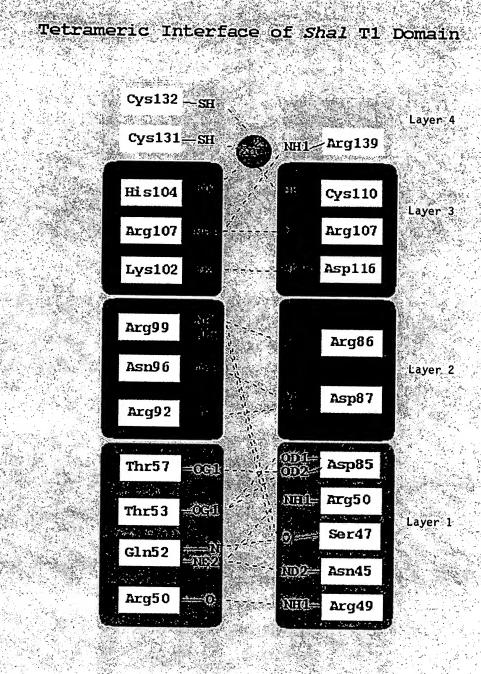


FIG. 4

		Atom Type	<u>Res</u> .	MOL	. Res.	X	Y	<u>z</u>	<u>occ</u> .	<u>B</u> .		
		1725			No.							
MOTA	1	С	GLY	Α	12	64.163	62.604	-15.738	1.00	65.88	A	С
MOTA	2	0	GLY	Α	12	63.625	62.540	-14.631	1.00	65.73	A	0
ATOM	3	N	GLY	Α	12	65.196	64.151	-17.424	1.00	66.13	A	N
MOTA	4	CA	GLY	Α	12	65.244	63.633	-16.021	1.00	66.24	A	С
MOTA	5	N	LEU	Α	13	63.843	61.796	-16.743	1.00	65.27	A	N
MOTA	6	CA	LEU	Α	13	62.819	60.771	-16.602	1.00	64.67	 A	C
MOTA	7	CB	LEU	Α	13	62.442	60.217	-17.977	1.00	65.05	A	С
ATOM	8	CG	LEU	Α	13	61.094	59.509	-18.095	1.00	65.11	A	С
MOTA	9	CD1	LEU	Α	13	59.991	60.499	-17.791	1.00	65.51	A	С
MOTA	10	CD2	LEU	A	13	60.917	58.954	-19.497	1.00	65.52	A	С
MOTA	11	С	LEU	Α	13	63.340	59.649	-15.711	1.00	63.76	A	С
MOTA	12	0	LEU	Α	13	62.568	58.982	-15.030	1.00	62.85	A	0
MOTA	13	N	GLU	Α	14	64.657	59.451	-15.727	1.00	63.13	A	N
MOTA	14	CA	GLU	Α	14	65.293	58.418	-14.914	1.00	62.71	A	С
MOTA	15	CB	GLU	Α	14	66.667	58.025	-15.489	1.00	63.85	A	С
MOTA	16	CG	GLU	Α	14	67.835	57.372	-14.748	1.00	20.00	A	C
MOTA	17	CD	GLU	Α	14	69.073	56.829	-15.424	1.00	20.00	A	C
MOTA	18	OE1	GLU	Α	14	69.466	56.835	-16.582	1.00	20.00	A	ō
MOTA	19	OE2	GLU	Α	14	69.667	56.251	-14.517	1.00	20.00	A	0
ATOM	20	С	GLU	Α	14	65.363	58.883	-13.468	1.00	61.13	A	С
ATOM	21	0	GLU	A	14	65.281	58.076	-12.536	1.00	61.29	A	ō
ATOM	22	N	GLN	A	15	65.524	60.189	-13.284	1.00		A	N
MOTA	23	CA	GLN	Α	15	65.586		-11.945			A	C
ATOM	24	CB	GLN	Α	15	66.322		-11 918		57 77	Δ.	Č

ATOM	25	CG	GLN	Α	15	66.278	62.386	-10.416	1.00 20.00	А	С
MOTA	26	CD	GLN	Α	15	67.232	61.821	-9.390	1.00 20.00	A	Ċ
ATOM	27	OE1	. GLN	Α	15	68.154	62.258	-8.722	1.00 20.00	Α	0
MOTA	28	NE2	GLN	Α	15	67.044	60.506	-9.618	1.00 20.00	Α	N
MOTA	29	С	GLN	Α	15	64.169	60.811	-11.414	1.00 54.63	Α	С
MOTA	30	0	GLN		15	63.932	60.641	-10.218	1.00 54.90	A	0
MOTA	31	N	LEU	А	16	63.228	61.040	-12.323	1.00 51.85	A	N
MOTA	32	CA	LEU	A	16	61.821	61.131	-11.973	1.00 49.40	А	С
MOTA	33	CB	LEU		16	61.021	61.643	-13.171	1.00 49.77	A	C
ATOM	34	CG	LEU		16	59.865		-12.937	1.00 50.01	Α	С
MOTA	35		LEU		16	59.016		-14.193	1.00 50.06	A	С
ATOM	36		LEU		16	59.017		-11.757	1.00 50.23	Α	C
ATOM	37	C	LEU		16	61.302		-11.562	1.00 47.55	Α	C
ATOM	38	0	LEU		16	60.574		-10.573	1.00 46.60	A	0
ATOM	39	N	GLU		17	61.683		-12.328	1.00 45.74	Α	N
ATOM ATOM	40	CA	GLU		17	61.257		-12.043	1.00 44.79	A	С
MOTA	41 42	CB CG	GLU		17	61.730		-13.130	1.00 44.80	A	C
ATOM	43	CD	GLU GLU		17	61.323		-12.858	1.00 45.54	A	С
MOTA	44	OE1			17 17	61.824		-13.905	1.00 46.30	A	С
ATOM	45	OE2			17	61.483 62.554		-13.800 -14.829	1.00 45.44	A	0
ATOM	46	C	GLU		17	61.798		-14.829	1.00 47.88	A	0
ATOM	47	Ö	GLU		17	61.132	56.166		1.00 44.18 1.00 43.72	A	C
ATOM	48	N	ALA		18	63.012		-10.372	1.00 43.72	A A	И О
ATOM	49	CA	ALA		18	63.631	56.923		1.00 43.51	A	C
MOTA	50	CB	ALA	Α	18	65.113	57.279		1.00 43.67	A	C
MOTA	51	С	ALA	Α	18	62.957	57.562	-7.905	1.00 43.08	A	C
MOTA	52	0	ALA	Α	18	62.997	57.010	-6.808	1.00 43.21	A	ō
MOTA	53	N	GLN	Α	19	62.321	58.712	-8.109	1.00 42.80	A	N
MOTA	54	CA	GLN	A	19	61.674	59.428	-7.015	1.00 42.54	A	C
MOTA	55	CB	GLN	А	19	61.895	60.929	-7.182	1.00 45.58	Α	C
MOTA	56	CG	GLN	Α	19	63.347	61.374	-7.115	1.00 49.60	A	С
MOTA	57	CD	GLN		19	63.506	62.832	-7.507	1.00 52.57	A	C
ATOM	58	OE1			19	63.231	63.207	-8.653	1.00 55.04	A	0
ATOM	59	NE2			19	63.938	63.667	-6.558	1.00 53.41	Α	N
ATOM ATOM	60	C	GLN		19	60.182	59.183	-6.822	1.00 40.73	Α	С
MOTA	61 62	И	GLN		19	59.621	59.598	-5.807	1.00 40.23	A	0
ATOM	63	CA	THR THR		20	59.539	58.530	-7.787	1.00 37.97	A	N
ATOM	64	CB	THR		20 20	58.104	58.267	-7.701	1.00 35.16	A	С
ATOM	65	OG1	THR		20	57.308 57.760	59.049	-8.794	1.00 34.85	A	C
ATOM	66	CG2	THR		20	57.501	58.659 60.549	-10.100	1.00 33.54	A	0
ATOM	67	C	THR		20	57.779	56.782	-8.624 -7.836	1.00 33.13	A	C
ATOM	68	ō	THR		20	58.665	55.950	-8.024	1.00 34.68 1.00 33.92	A A	C
ATOM	69	N	ASN		21	56.493	56.467	-7.748	1.00 33.32	A	И
ATOM	70	CA	ASN		21	56.023	55.099	-7.840	1.00 32.03	A	C
MOTA	71	CB	ASN		21	54.807	54.929	-6.935	1.00 31.76	A	C
MOTA	72	CG	ASN	A	21	55.117	55.244	-5.491	1.00 32.45	A	Ċ
MOTA	73	OD1	ASN	Α	21	54.434	56.050	-4.861	1.00 33.08	A	Ō
MOTA	74		ASN		21	56.159	54.611	-4.956	1.00 31.88	A	N
MOTA	75	C	ASN	A	21	55.656	54.689	-9.254	1.00 31.39	A	C
ATOM	76	0	ASN		21	54.796	53.835	-9.440	1.00 32.05	A	0
ATOM	77	N	PHE		22	56.308		-10.249	1.00 31.61	A	N
MOTA MOTA	78 70	CA	PHE		22	56.000		-11.646	1.00 31.39	A	C
ATOM	79 80	CB	PHE		22	55.459		-12.372	1.00 29.65	A	С
ATOM	80 81	CG CD1	PHE PHE		22	54.160		-11.814	1.00 28.15	A	C
ATOM	82		PHE		22 22	53.004		-11.876	1.00 26.04	A	C
ATOM	83		PHE		22	54.094 51.807		-11.228	1.00 27.53	A	C
ATOM	84		PHE		22	52.897		-11.366 -10.714	1.00 25.05	A N	C
MOTA	85	CZ	PHE		22	51.754		-10.714	1.00 24.86 1.00 25.45	A A	C
MOTA	86	C	PHE		22	57.186		-10.782	1.00 25.45	A A	С
						– – •					_

ATOM	87	0	PHE	Α	22	58.327	54.818	-12.181	1.00 32.53	А	0
MOTA	88	N	THR	Α	23	56.906	53.559	-13.399	1.00 33.05	A	N
MOTA	89	CA	THR	Α	23	57.948	53.006	-14.256	1.00 35.33	Α	С
MOTA	90	CB	THR		23	57.548		-14.887	1.00 36.01	Α	С
ATOM	91	OG1			23	56.367		-15.686	1.00 34.53	A	0
MOTA	92	CG2			23	57.304		-13.797	1.00 34.93	A	С
ATOM	93	C	THR		23	58.196	53.995	-15.384	1.00 36.79	Α	С
MOTA	94	0	THR		23	57.472		-15.529	1.00 36.24	A	0
MOTA	95	N	LYS		24	59.218		-16.185	1.00 39.30	A	N
ATOM	96	CA	LYS		24	59.565		-17.293	1.00 41.86	A	С
MOTA	97	CB	LYS		24	60.853		-17.955	1.00 43.66	A	С
ATOM	98	CG	LYS		24	61.325		-19.113	1.00 47.68	A	С
MOTA MOTA	99	CD	LYS		24	62.850		-19.167	1.00 51.07	A	C
ATOM	100 101	CE	LYS		24	63.425		-17.868	1.00 52.24	A	C
ATOM	101	NZ C	LYS		24 24	64.908			1.00 53.91	A	N
ATOM	102	0	LYS LYS		24	58.469		-18.343	1.00 42.67	A	C
MOTA	103	И	ARG		25	58.203 57.834		-18.838 -18.683	1.00 41.90 1.00 43.74	A	0
MOTA	105	CA	ARG		25	56.797		-19.698	1.00 45.74	A A	N C
ATOM	106	CB	ARG		25	56.596		-20.311	1.00 43.84	A	C
ATOM	107	CG	ARG		25	55.637		-19.583	1.00 40.57	A	C
MOTA	108	CD	ARG		25	55.577		-20.289	1.00 58.35	A	C
ATOM	109	NE	ARG		25	56.919		-20.458	1.00 62.72	A	N
MOTA	110	CZ	ARG		25	57.187		-21.067	1.00 64.45	A	C
MOTA	111	NH1	ARG		25	56.200		-21.572	1.00 65.48	A	N
MOTA	112	NH2	ARG	Α	25	58.446		-21.183	1.00 65.05	A	N
MOTA	113	С	ARG	Α	25	55.478	54.186	-19.165	1.00 44.66	А	С
MOTA	114	0	ARG	Α	25	54.652	54.674	-19.937	1.00 44.50	А	0
MOTA	115	N	GLU	Α	26	55.272	54.106	-17.855	1.00 43.92	A	N
MOTA	116	CA	GLU	Α	26	54.056	54.654	-17.268	1.00 43.12	Α	С
ATOM	117	CB	GLU		26	53.875	54.200	-15.823	1.00 41.80	A	С
MOTA	118	CG	GLU		26	53.712		-15.634	1.00 40.63	Α	С
ATOM	119	CD	GLU		26	53.397		-14.196	1.00 39.89	A	С
ATOM ATOM	120 121	OE1			26	54.009		-13.296	1.00 37.64	A	0
ATOM	121	OE2 C	GLU GLU		26 26	52.547		-13.969	1.00 39.11	A	0
ATOM	123	0	GLU		26	54.197 53.219		-17.284 -17.448	1.00 42.93	A	C
ATOM	124	N	LEU		27	55.426		-17.100	1.00 42.27 1.00 43.07	A	0
ATOM	125	CA	LEU		27	55.708		-17.100	1.00 43.07	A A	N C
ATOM	126	СВ	LEU		27	57.153		-16.656	1.00 44.73	A	C
MOTA	127	CG	LEU		27	57.458		-15.168	1.00 44.04	A	C
MOTA	128	CD1	LEU		27	58.946		-14.919	1.00 43.17	A	C
MOTA	129	CD2	LEU	Α	27	56.699		-14.351	1.00 43.80	A	Ċ
MOTA	130	C	LEU	Α	27	55.460		-18.474	1.00 46.59	A	С
MOTA	131	0	LEU	Α	27	55.048	59.825	-18.585	1.00 48.04	Α	0
MOTA	132	N	GLN	Α	28	55.716	57.884	-19.522	1.00 46.84	A	N
MOTA	133	CA	GLN		28	55.491		-20.882	1.00 47.94	Α	С
MOTA	134	CB	GLN		28	56.175	57.436	-21.892	1.00 48.96	Α	С
MOTA	135	CG	GLN		28	57.542	57.935	-22.360	1.00 52.31	A	
MOTA	136	CD	GLN		28	57.468	59.258	-23.129	1.00 54.50	Α	С
ATOM	137		GLN		28	56.627		-24.024	1.00 55.65	A	0
ATOM	138		GLN		28	58.355		-22.789	1.00 54.39	A	N
MOTA	139	C	GLN		28	53.994		-21.170	1.00 47.69	A	С
MOTA MOTA	140 141	0	GLN		28	53.537		-21.865	1.00 46.81	A	0
ATOM	141	N CA	VAL		29	53.231		-20.632	1.00 47.29	A	И
ATOM	142	CA CB	VAL		29	51.791		-20.824	1.00 48.38	A	C
ATOM	143		VAL VAL		29	51.131		-20.267	1.00 49.02	A	C
MOTA	145		VAL		29 29	49.618		-20.288	1.00 47.98	A	C
ATOM	145	C	VAL		29	51.551 51.214		-21.093 -20.084	1.00 50.04	A	C
ATOM	147	o	VAL		29	50.220		-20.084	1.00 48.92 1.00 49.72	A A	C O
ATOM	148	N	LEU		30	51.842		-18.966	1.00 49.72	A	N
							000	10.700	2.00 40.70		24

ATOM	149	CA	LEU	A 30	51.397	60.199	-18.162	1.00 48.68	А	С
ATOM	150	CB	LEU	A 30	52.041		-16.771	1.00 49.80	A	C
ATOM	151	CG	LEU	A 30	51.414		-15.729	1.00 50.53	A	C
MOTA	152	CDI	L LEU	A 30	52.202		-14.427	1.00 51.22	A	C
MOTA	153	CD2	LEU	A 30	49.973		-15.487	1.00 50.72	A	C
MOTA	154	С	LEU	A 30	51.734		-18.849	1.00 48.32	A	C
MOTA	155	0	LEU	A 30	50.946		-18.828	1.00 47.23	A	0
ATOM	156	N	TYR	A 31	52.913		-19.456	1.00 48.79	A	N
MOTA	157	CA	TYR	A 31	53.341		-20.167	1.00 50.28	A	C
MOTA	158	CB	TYR	A 31	54.763		-20.692	1.00 51.69	A	C
MOTA	159	CG	TYR	A 31	55.341		-21.360	1.00 53.33	A	C
MOTA	160	CD1	TYR	A 31	55.795		-20.607	1.00 53.99	A	C
ATOM	161	CE1	TYR	A 31	56.311		-21.221	1.00 54.75	A	c
MOTA	162	CD2	TYR	A 31	55.414		-22.749	1.00 54.56	A	Č
MOTA	163	CE2	TYR	A 31	55.925		-23.374	1.00 55.20	A	C
MOTA	164	CZ	TYR	A 31	56.372		-22.606	1.00 55.50	A	Ċ
MOTA	165	OH	TYR	A 31	56.878		-23.226	1.00 55.28	A	ō
ATOM	166	С	TYR .	A 31	52.385		-21.335	1.00 50.63	Α.	Č
MOTA	167	0	TYR .	A 31	51.893		-21.525	1.00 50.03	A	ō
MOTA	168	N	ARG .	A 32	52.125		-22.111	1.00 51.03	A	N
MOTA	169	CA	ARG .	A 32	51.233		-23.258	1.00 51.78	A	C
MOTA	170	CB	ARG .	A 32	51.069		-23.933	1.00 51.64	A	Ċ
MOTA	171	CG	ARG .	A 32	50.132		-23.274	1.00 20.00	A	Č
MOTA	172	CD	ARG .	A 32	50.693		-23.851	1.00 20.00	A	c
MOTA	173	NE	ARG .	A 32	51.791	58.229	-24.812	1.00 20.00	A	N
MOTA	174	CZ	ARG 2		51.875	56.891	-24.933	1.00 20.00	A	С
ATOM	175	NH1	ARG A	A 32	50.777	56.230	-25.255	1.00 20.00	A	N
ATOM	176	NH2	ARG A	A 32	52.910	56.24 7	-24.387	1.00 20.00	A	N
ATOM	177	С	ARG A	A 32	49.902	62.670	-22.848	1.00 52.10	A	C
MOTA	178	0	ARG Z		49.404	63.574	-23.511	1.00 52.81	A	ō
MOTA	179	N	GLY A	A 33	49.330	62.180	-21.754	1.00 51.76	А	N
MOTA	180	CA	GLY A		48.061	62.709	-21.293	1.00 52.06	A	C
ATOM	181	С	GLY A	A 33	48.183	64.135	-20.787	1.00 52.23	A	Č
ATOM	182	0	GLY A	A 33	47.245	64.930	-20.898	1.00 51.85	A	o
MOTA	183	N	PHE A	A 34	49.354	64.455	-20.240	1.00 52.23	A	N
MOTA	184	CA	PHE A		49.642	65.778	-19.690	1.00 52.14	A	C
ATOM	185	CB	PHE A		51.001	65.768	-18.990	1.00 50.25	A	Ċ
MOTA	186	CG	PHE A	34	51.354	67.064	-18.335	1.00 48.78	А	C
MOTA	187	CD1	PHE A		50.689	67.483	-17.185	1.00 47.95	A	C
ATOM	188	CD2	PHE A		52.356	67.871	-18.865	1.00 48.17	Α	С
ATOM	189		PHE A		51.017	68.686	-16.569	1.00 47.18	A	С
MOTA	190	CE2	PHE A		52.692	69.075	-18.258	1.00 48.22	A	С
ATOM	191	CZ	PHE A		52.021	69.486	-17.106	1.00 47.63	A	С
ATOM	192	C	PHE A		49.645	66.844	-20.778	1.00 53.18	A	С
ATOM	193	0	PHE A		48.977	67.869	-20.647	1.00 52.52	A	0
MOTA	194	N	LYS A		50.410		-21.841	1.00 54.12	Α.	N
ATOM	195	CA	LYS A		50.484		-22.956	1.00 55.80	A	C
ATOM	196	CB	LYS A		51.633	67.163	-23.909	1.00 55.12	A	C
ATOM	197	CG	LYS A		53.044	67.097	-23.320	1.00 20.00	A	С
ATOM	198	CD	LYS A		53.394	68.569	-23.541	1.00 20.00	A	С
ATOM	199	CE	LYS A		54.721		-23.166	1.00 20.00	A	С
ATOM	200	NZ	LYS A		55.232	70.467	-23.772	1.00 20.00	A	N
ATOM	201	С	LYS A		49.134		-23.661	1.00 56.77	A	С
MOTA	202	0	LYS A		48.729	68.689	-24.135	1.00 56.89	A	0
ATOM	203	N	ASN A		48.439		-23.714	1.00 57.64	A	N
ATOM	204	CA	ASN A		47.136		-24.346	1.00 58.51	A	C
ATOM	205	CB	ASN A		46.551		-24.125	1.00 60.07	A	С
ATOM	206	CG	ASN A		45.608		-25.228	1.00 61.20	Α	С
ATOM	207		ASN A		44.562		-25.441	1.00 61.61	A	0
ATOM	208		ASN A		45.977		-25.945	1.00 62.29	A	N
ATOM	209	C	ASN A		46.213		-23.739	1.00 58.82	Α	С
ATOM	210	0	ASN A	. 36	45.392	68.073	-24.428	1.00 59.37	A	0

MOTA	211	N	GLU	Α	37	46.363	67.679	-22.438	1.00	58.58	;	A	N
ATOM	212	CA	GLU		37	45.542	68.641	-21.719	1.00	57.89	į	A	С
ATOM	213	CB	GLU		37	45.157		-20.359		59.65		A.	C
MOTA	214	CG	GLU		37	44.271		-19.522		62.67	•	A.	C
MOTA	215	CD	GLU		37	42.914		-20.157		64.76		A.	С
ATOM	216	OE1	GLU		37	42.175		-20.332		65.67		Α.	0
ATOM	217	OE2			37	42.589		-20.479		66.29		A.	0
MOTA MOTA	218 219	С 0	GLU GLU		37 37	46.244 45.592		-21.526 -21.340		56.21 55.68		A. *	С 0
ATOM	220	И	CYS		38	47.573		-21.578		55.03		A. A.	И
ATOM	221	CA	CYS		38	48.365		-21.378		53.05		A.	C
ATOM	222	CB	CYS		38	49.039		-20.020		52.85		A.	C
ATOM	223	SG	CYS		38	47.901		-18.680		52.83		A.	s
ATOM	224	С	CYS	Α	38	49.432	71.315	-22.460	1.00	52.40		A.	С
ATOM	225	0	CYS	Α	38	50.604	71.016	-22.216	1.00	52,82	1	A.	0
ATOM	226	N	PRO	Α	39	49.038	71.775	-23.660	1.00	51.44		A	N
MOTA	227	CD	PRO	Α	39	47.647	72.161	-23.963	1.00	51.77		A	С
MOTA	228	CA	PRO	Α	39	49.889	71.969	-24.838	1.00	49.63		A	С
MOTA	229	CB	PRO		39	48.972		-25.792		51.10		A.	С
MOTA	230	CG	PRO		39	47.634		-25.468		51.57		A	С
ATOM	231	С	PRO		39	51.208		-24.606		47.92		A.	С
ATOM	232	0	PRO		39	52.227		-25.181		47.32		A.	0
ATOM ATOM	233 234	N CA	SER SER		40	51.195		-23.772 -23.496		46.76		A.	N C
ATOM	235	CB	SER		40	52.415 52.071		-23.496		46.17		A A	C
MOTA	236	OG	SER		40	51.544		-21.536		43.71		A A	0
ATOM	237	C	SER		40	53.392		-22.605		46.18		A.	C
ATOM	238	Ō	SER		40	54.535		-22.400		45.92		A	0
MOTA	239	N	GLY		41	52.941		-22.070		45.93		A	N
ATOM	240	CA	GLY		41	53.811		-21.216		46.48		A	C
MOTA	241	С	GLY		41	53.725		-19.744		46.20		A	C
ATOM	242	0	GLY	Α	41	54.322	71.483	-18.908	1.00	47.02		A	0
MOTA	243	N	VAL	Α	42	53.004	73.220	-19.411	1.00	45.52		A	N
MOTA	244	CA	VAL	Α	42	52.859	73.597	-18.013	1.00	45.46		A	C
MOTA	245	CB	VAL		42	53.781	74.783	-17.623	1.00	45.97		A	С
ATOM	246	CG1	VAL		42	55.197		-18.088		45.85		A	С
ATOM	247				42	53.258		-18.197		45.96		A	C
ATOM	248	C	VAL		42	51.415		-17.728		45.14		A.	C
ATOM	249	0	VAL		42	50.653		-18.648		45.23		A	0
ATOM ATOM	250 251	N CA	VAL VAL		43	51.044 49.680		-16.451		43.95		A N	N
ATOM	252	CB	VAL		43	49.065		-16.041 -15.260		43.08		A A	C
ATOM	253		VAL		43	47.560		-15.209		42.26		A.	c
MOTA	254		VAL		43	49.482		-15.878		42.71		A	C
MOTA	255	С	VAL		43	49.627		-15.127		42.77		A	Ċ
MOTA	256	0	VAL		43	50.328		-14.114		43.18		A	0
ATOM	257	N	ASN	Α	44	48.807	76.413	-15.481	1.00	41.82		A	N
MOTA	258	CA	ASN	Α	44	48.662	77.581	-14.630	1.00	41.08		A	С
MOTA	259	CB	ASN		44	48.543	78.871	-15.442	1.00	42.43		A	C
MOTA	260	CG	ASN		44	47.414		-16.440		43.67		A	С
ATOM	261		ASN		44	46.263		-16.098		43.79		A	0
ATOM	262		ASN		44	47.735		-17.690		44.64		A	N
ATOM ATOM	263	C	ASN		44	47.417		-13.796		40.36		A •	C
ATOM	264 265	0 N	ASN		44	46.709		-13.986		39.36		A	0
ATOM	266	CA	GLU GLU		45 45	47.144		-12.875		39.94		A n	N
ATOM	267	CB	GLU		45	45.999 45.943		-12.003 -10.997		40.96 40.19		A A	C C
ATOM	268	CG	GLU		45	44.854	79.246	-9.971		40.19		A A	C
ATOM	269	CD	GLU		45	45.180	79.750			39.58		A	C
MOTA	270		GLU		45	46.267	80.339			40.29		A	Ö
ATOM	271		GLU		45	44.350	79.691	-7.735		41.93		A	Ö
ATOM	272	C	GLU		45	44.657		-12.708		41.65		A	C

MOTA	273	0	GLU	A 45	43.912	77.028	-12.422	1.00 42.38	А	0
MOTA	274	N	GLU	A 46	44.350		-13.623	1.00 42.50	A	N
MOTA	275	CA	GLU	A 46	43.084		-14.355	1.00 42.89	A	C
MOTA	276	CB	GLU	A 46	43.015		15.384	1.00 44.77	A	C
ATOM	277	CG	GLU	A 46	42.722		-14.763	1.00 47.77	A	C
ATOM	278	CD	GLU .	A 46	41.717		-13.623	1.00 50.29	λ	C
ATOM	279	OE1	GLU .	A 46	40.635		-13.814	1.00 52.22	A	0
ATOM	280	OE2	GLU .	A 46	42.013		-12.528	1.00 51.61	A	0
MOTA	281	C	GLU .	A 46	42.862		-15.052	1.00 41.66	A	C
MOTA	282	0	GLU .	A 46	41.791		-14.965	1.00 41.76	A	0
MOTA	283	N	THR .	A 47	43.878		-15.758	1.00 40.68	A	И
ATOM	284	CA	THR .	A 47	43.790		-16.453	1.00 41.02	A	C
ATOM	285	CB	THR I	A 47	45.121		-17.134	1.00 41.89	A	c
MOTA	286	OG1	THR 2	A 47	45.469		-18.032	1.00 42.27	A	ō
ATOM	287	CG2	THR A	A 47	45.017		-17.903	1.00 43.51	A	Č
MOTA	288	C	THR A	A 47	43.474		-15.436	1.00 40.95	A	c
ATOM	289	0	THR A	A 47	42.644	73.815	-15.673	1.00 40.54	A	ō
MOTA	290	N	PHE A	48	44.150	74.771	-14.294	1.00 40.70	A	N
ATOM	291	CA	PHE A	A 48	43.964		-13.236	1.00 38.83	A	C
MOTA	292	CB	PHE A	A 48	44.988	74.017	-12.129	1.00 38.64	A	c
MOTA	293	CG	PHE A	A 48	45.042	72.902	-11.140	1.00 38.28	A	C
ATOM	294	CD1	PHE A	48	44.155	72.861	-10.071	1.00 38.40	A	С
ATOM	295		PHE A		45.952	71.865	-11.303	1.00 37.80	A	C
ATOM	296		PHE A		44.172	71.801	-9.179	1.00 38.86	A	C
ATOM	297	CE2			45.980	70.798	-10.419	1.00 38.87	A	С
ATOM	298	CZ	PHE A		45.086	70.764	-9.351	1.00 38.76	A	С
MOTA	299	C	PHE A		42.563	73.881	-12.672	1.00 38.35	A	С
ATOM	300	0	PHE A		41.942	72.862	-12.385	1.00 36.55	A	0
ATOM	301	N	LYS A		42.066	75.102	-12.518	1.00 39.14	A	N
ATOM	302	CA	LYS A		40.724	75.305	-11.995	1.00 41.74	A	С
ATOM	303	CB	LYS A		40.488	76.775	-11.669	1.00 41.44	A	С
ATOM	304	CG	LYS A		41.200	77.251	-10.419	1.00 42.32	Α	C
ATOM	305	CD	LYS A		40.910	78.720	-10.197	1.00 44.05	A	С
ATOM	306	CE	LYS A		41.501	79.222	-8.907	1.00 44.53	A	C
ATOM	307	NZ	LYS A		41.167	80.660	-8.713	1.00 46.61	A	N
ATOM	308	C	LYS A		39.674		-12.980	1.00 43.08	A	С
ATOM	309	0	LYS A		38.624		-12.580	1.00 43.10	Α	0
ATOM ATOM	310	N	GLN A		39.962		-14.268	1.00 45.22	A	N
ATOM	311	CA	GLN A		39.043		-15.318	1.00 47.50	. A	С
ATOM	312 313	CB	GLN A		39.557		-16.691	1.00 49.43	Α	С
ATOM	313	CG CD	GLN A		39.338		-16.994	1.00 51.80	A	С
ATOM	315		GLN A		40.147		-18.194	1.00 53.65	А	C
ATOM	316		GLN A		40.223		-19.239	1.00 52.82	Α	0
ATOM	317	C	GLN A		40.746		-18.048	1.00 54.60	A	N
ATOM	318	o	GLN A		38.914		-15.299	1.00 48.09	A	С
ATOM	319	N	ILE A		37.812 40.057		-15.240	1.00 48.47	A	0
ATOM	320	CA	ILE A				-15.348	1.00 48.28	A	N
ATOM	321	CB	ILE A		40.106		-15.341	1.00 48.52	A	С
ATOM	322		ILE A		41.570		-15.371	1.00 48.36	Α	С
ATOM	323		ILE A		41.627		-15.289	1.00 46.81	A	С
ATOM	324		ILE A		42.255		-16.636	1.00 48.48	A	C
MOTA	325	C	ILE A		43.774		-16.611	1.00 49.63	A	Ċ
MOTA	326	ō	ILE A		39.422		-14.106	1.00 48.94	A	Ċ
ATOM	327	N	TYR A		38.608 39.747		-14.209	1.00 48.77	A	0
ATOM	328	CA	TYR A				-12.940	1.00 49.30	A	N
ATOM	329	CB	TYR A		39.171		-11.692	1.00 49.14	A	C
ATOM	330	CG	TYR A		39.881 39.623		-10.488	1.00 47.82	A	C
ATOM	331		TYR A		40.175	70.288	-9.204	1.00 47.50	A	C
ATOM	332		TYR A		39.911	69.023	-8.996	1.00 47.37	Α.	C
ATOM	333		TYR A		38.799	68.301	-7.837	1.00 47.62	A	C
ATOM	334		TYR A			70.816	-8.215	1.00 47.82	A	C
			A	24	38.523	70.106	-7.047	1.00 48.11	A	С

MOTA	335	CZ	TYR	Α	52	39.084	68.848	-6.863	1.00 48.79	А	С
MOTA	336	ОН	TYR	Α	52	38.826	68.147	-5.701	1.00 48.05	А	0
MOTA	337	C	TYR	A	52	37.677	70.689	-11.590	1.00 49.56	A	С
ATOM	338	0	TYR		52	36.928	69.849	-11.102	1.00 49.14	A	0
MOTA	339	N	ALA		53	37.248		-12.051	1.00 51.21	A	N
ATOM	340	CA	ALA		53	35.835	72.225		1.00 54.20	A.	С
MOTA MOTA	341 342	CB C	ALA		53	35.592		-12.887	1.00 53.32	Α	С
ATOM	342	0	ALA ALA		53 53	34.907		-12.439	1.00 56.37	A	C
ATOM	344	N	GLN		54	33.860 35.300		-11.836 -13.482	1.00 56.71	A	0
ATOM	345	CA	GLN		54	34.496		-13.462	1.00 58.51 1.00 61.16	A	N
ATOM	346	СВ	GLN		54	35.173		-15.250	1.00 63.20	A A	C
ATOM	347	CG	GLN		54	35.249		-16.344	1.00 66.37	A	C
ATOM	348	CD	GLN		54	36.193		-17.461	1.00 68.58	A	C
MOTA	349	OE1	GLN	Α	54	37.400		-17.249	1.00 70.03	A	ō
MOTA	350	NE2	GLN	Α	54	35.651		-18.666	1.00 69.48	A	N
MOTA	351	С	GLN	Α	54	34.169	68.168	-13.019	1.00 61.94	A	С
MOTA	352	0	GLN	Α	54	33.132	67.523	-13.149	1.00 62.40	A	0
MOTA	353	N	PHE	A	55	35.031	67.934	-12.035	1.00 62.56	А	N
ATOM	354	CA	PHE		55	34.754	66.891	-11.047	1.00 63.43	A	С
ATOM	355	CB	PHE		55	35.981		-10.164	1.00 64.62	A	С
MOTA	356	CG	PHE		55	37.162		-10.900	1.00 66.36	A	С
MOTA	357	CD1	PHE		55	37.025		-11.700	1.00 67.06	A	С
ATOM ATOM	358 359	CE1	PHE		55	38.426		-10.765	1.00 66.81	A	С
ATOM	360	CE2			55 55	38.130 39.534		-12.354	1.00 67.35	A	C
ATOM	361	CZ	PHE		55	39.386		-11.413	1.00 66.99	A	C
ATOM	362	C	PHE		55	33.592		-12.209 -10.138	1.00 67.37	A	C
ATOM	363	Ö	PHE		55	33.104	66.506	-9.343	1.00 63.19 1.00 62.64	A A	0
ATOM	364	N	PHE		56	33.157		-10.255	1.00 63.32	A	И
MOTA	365	CA	PHE		56	32.073	69.098	-9.425	1.00 63.06	A	C
ATOM	366	CB	PHE	A	56	32.671	69.740	-8.173	1.00 63.71	A	C
MOTA	367	CG	PHE	Α	56	33.397	68.771	-7.285	1.00 65.32	A	Ċ
MOTA	368	CD1	PHE	Α	56	32.720	68.086	-6.277	1.00 65.79	A	Č
MOTA	369	CD2	PHE	Α	56	34.755	68.522	-7.467	1.00 65.42	A	С
MOTA	370	CE1			56	33.385	67.167	-5.463	1.00 65.64	A	С
MOTA	371	CE2	PHE		56	35.429	67.605	-6.659	1.00 65.66	A	С
ATOM	372	CZ	PHE		56	34.743	66.926	-5.656	1.00 65.53	A	С
ATOM	373	С	PHE		56	31.198	70.125	-10.158	1.00 62.36	A	С
ATOM ATOM	374	0	PHE		56	31.315	71.330	-9.929	1.00 62.15	A	0
ATOM	375 376	N CD	PRO		57	30.296	69.657	-11.037	1.00 61.73	A	N
ATOM	377	CA	PRO	_	57 57	30.104		-11.416	1.00 61.31	A	C
ATOM	378	CB	PRO PRO		57 57	29.396 28.90 7		-11.809 -12.916	1.00 60.73	A	C
ATOM	379	CG	PRO		57	28.807		-12.196	1.00 60.59 1.00 61.10	A	C
ATOM	380	C	PRO		57	28.236		-11.021	1.00 59.36	A A	C
MOTA	381	0	PRO		57	27.583		-11.499	1.00 59.70	A	0
ATOM	382	N	HIS		58	27.983	70.640	-9.819	1.00 57.76	A	N
ATOM	383	CA	HIS		58	26.899	71.155	-8.992	1.00 55.74	A	C
MOTA	384	CB	HIS	Α	58	26.214	70.012	-8.245	1.00 58.55	A	Ċ
MOTA	385	CG	HIS		58	25.544	69.023	-9.142	1.00 61.37	A	C
MOTA	386		HIS		58	25.471	67.672	-9.086	1.00 62.20	A	С
MOTA	387		HIS		58	24.798		-10.237	1.00 62.96	A	N
ATOM	388		HIS		58	24.292		-10.816	1.00 63.82	A	С
ATOM	389		HIS		58	24.686		-10.137	1.00 63.56	A	N
MOTA	390	C	HIS		58	27.350	72.201	-7.983	1.00 53.03	Α	С
ATOM ATOM	391	0	HIS		58	26.578	72.605	-7.107	1.00 52.56	Α	0
ATOM	392 393	N CA	GLY		59	28.598	72.635	-8.097	1.00 49.78	A	N
ATOM	393	CA	GLY GLY		59 50	29.097	73.636	-7.178	1.00 45.97	A	C
ATOM	394	0	GLY		59 50	30.189	74.478	-7.796	1.00 43.42	A	C
ATOM	396	N	ASP		59 60	30.415	74.437	-9.001	1.00 43.21	A	0
			AUE	-	0.0	30.862	75.251	-6.956	1.00 41.53	A	N

ATOM	397	CA	ASP	A	60	31.958	76.101	-7.389	1.00 39.59	А	С
ATOM	398		ASP		60	31.673	77.553	-7.000	1.00 38.62	A	Ċ
MOTA	399		ASP		60	32.739	78.509	-7.485	1.00 38.52	A	C
ATOM	400		ASP		60	33.470	78.176	-8.438	1.00 39.59	Α	0
ATOM	401		2 ASP		60	32.837	79.612	-6.918	1.00 39.71	Α	0
ATOM	402		ASP		60	33.213	75.578	-6.691	1.00 38.80	Α	С
MOTA	403	0	ASP		60	33.451	75.862	-5.511	1.00 37.66	A	0
MOTA MOTA	404	N	ALA		61	34.001	74.801	-7.433	1.00 38.03	Α	N
ATOM	405	CA	ALA		61	35.222	74.192	-6.914	1.00 37.03	А	C
ATOM	406 407	CB C	ALA ALA		61 61	35.386	72.808	-7.519	1.00 37.39	Α	С
ATOM	408	0	ALA		61 61	36.486	75.017	-7.166	1.00 36.71	Α	С
ATOM	409	N	SER		62	37.598 36.317	74.561	-6.886	1.00 37.45	Α	0
ATOM	410	CA	SER		62	37.454	76.229 77.080	-7.680	1.00 34.85	A	N
ATOM	411	CB	SER		62	36.988	78.367	-7.985 -8.679	1.00 33.80	A	C
ATOM	412	OG	SER		62	36.204	79.159	-7.804	1.00 33.94 1.00 35.07	A	С
ATOM	413	С	SER		62	38.313	77.434	-6.776	1.00 33.56	A N	0
ATOM	414	0	SER	Α	62	39.544	77.448	-6.883	1.00 33.58	A A	C
ATOM	415	N	THR		63	37.690	77.739	-5.636	1.00 33.38	A	И
MOTA	416	CA	THR	Α	63	38.483	78.071	-4.453	1.00 33.90	A	C
MOTA	417	CB	THR	А	63	37.627	78.670	-3.319	1.00 34.92	A	C
MOTA	418	OG1	THR	Α	63	36.495	77.833	-3.069	1.00 39.18	Α .	ō
MOTA	419	CG2	THR	Α	63	37.154	80.048	-3.691	1.00 36.07	A	C
ATOM	420	С	THR		63	39.248	76.847	-3.930	1.00 32.63	A	C
MOTA	421	0	THR		63	40.409	76.964	-3.547	1.00 32.30	A	0
ATOM	422	N	TYR		64	38.615	75.674	-3.934	1.00 32.03	A	N
ATOM	423	CA	TYR		64	39.303	74.472	-3.474	1.00 30.88	A	С
ATOM	424	CB	TYR		64	38.303	73.343	-3.417	1.00 31.48	A	С
MOTA MOTA	425	CG	TYR		64	38.975	72.150	-2.782	1.00 33.10	A	С
ATOM	426 427	CD1 CE1	TYR		64	39.193	72.120	-1.408	1.00 32.96	A	C
ATOM	428	CD2	TYR TYR		64	39.802	71.021	-0.822	1.00 34.55	A	С
ATOM	429	CE2	TYR		64 64	39.382	71.072	-3.569	1.00 33.06	A	C
ATOM	430	CZ	TYR		64	40.001 40.215	69.977	-2.985	1.00 33.71	Α	C
ATOM	431	ОН	TYR		64	40.215	69.951	-1.619	1.00 34.25	A	C
ATOM	432	C	TYR		64	40.399	68.860 74.145	-1.029	1.00 20.00	A	0
ATOM	433	Ō	TYR		64	41.521	73.798	-4.481 -4.104	1.00 29.16 1.00 28.07	A	C
MOTA	434	N	ALA		65	40.072	74.259	-5.766	1.00 28.07	A	0
MOTA	435	CA	ALA	А	65	41.052	73.982	-6.811	1.00 28.35	A A	N C
ATOM	436	CB	ALA	A	65	40.431	74.170	-8.212	1.00 28.19	A	C
MOTA	437	С	ALA	Α	65	42.243	74.922	-6.612	1.00 28.48	A	C
MOTA	438	0	ALA	A	65	43.383	74.584	-6.962	1.00 29.32	A	Ö
ATOM	439	N	HIS		66	41.975	76.099	-6.050	1.00 27.68	A	N
ATOM	440	CA	HIS		66	43.033	77.064	-5.772	1.00 29.28	A	C
ATOM	441	CB	HIS		66	42.447	78.367	-5.216	1.00 30.10	Α	С
ATOM	442	CG	HIS.		66	43.447	79.209	-4.484	1.00 31.01	A	С
MOTA MOTA	443		HIS.		66	43.679	79.363	-3.158	1.00 30.37	Α	C
ATOM	444		HIS.		66	44.411	79.953	-5.131	1.00 31.14	Α	N
ATOM	445 446		HIS .		66	45.194	80.527	-4.234	1.00 29.99	Α	С
ATOM	447		HIS.		66	44.773	80.184	-3.031	1.00 30.15	A	N
ATOM	448	С 0	HIS .		66	44.014	76.485	-4.747	1.00 29.55	A	C
ATOM	449	N	TYR .		66 67	45.224	76.556	-4.920	1.00 30.16	A	0
ATOM	450	CA	TYR		67	43.486 44.337	75.920	-3.668	1.00 30.26	A	N
ATOM	451	CB	TYR		67	43.504	75.341 75.006	-2.639	1.00 30.72	Α	C
MOTA	452	CG	TYR		67	43.066	76.237	-1.404	1.00 30.28	A	C
ATOM	453		TYR		67	44.011	77.118	-0.649 -0.122	1.00 31.08	A	C
MOTA	454		TYR Z		67	43.631	78.262	0.561	1.00 31.42 1.00 31.78	A A	C
MOTA	455		TYR 2		67	41.713	76.535	-0.469	1.00 31.78	A	C
MOTA	456		TYR A		67	41.316	77.686	0.218	1.00 32.33	A	C
MOTA	457		TYR A	Δ.	67	42.289	78.545	0.731	1.00 32.59	A	C
MOTA	458	OH	TYR A	Ą	67	41.930	79.685	1.414	1.00 32.55	A	0
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ATOM	459	С	TYR	Α	67	45.031	74.100	-3.178	1.00 31.03	Α	С
MOTA	460	0	TYR	Α	67	46.195	73.840	-2.873	1.00 32.08	A	ō
ATOM	461	N	LEU	Α	68	44.312	73.347	-4.001	1.00 31.15	A ·	N
ATOM	462	CA	LEU		68	44.860	72.140	-4.602	1.00 31.63	A	C
ATOM	463	CB	LEU		68	43.760	71.426	-5.388	1.00 31.69	A	C
ATOM	464	CG	LEU		68	43.857	69.900	-5.433	1.00 31.03		C
MOTA	465		LEU		68	43.989	69.349			A	
		CD2	LEU					-4.022	1.00 32.61	A	C
ATOM	466				68	42.619	69.333	-6.112	1.00 33.31	A	C
ATOM	467	С	LEU		68	46.045	72.501	-5.520	1.00 31.42	A	С
ATOM	468	0	LEU		68	47.070	71.809	-5.549	1.00 30.60	A	0
ATOM	469	N	PHE		69	45.897	73.602	-6.253	1.00 31.27	A	N
ATOM	470	CA	PHE		69	46.937	74.070	-7.157	1.00 31.28	A	С
MOTA	471	CB	PHE		69	46.480	75.341	-7.877	1.00 32.50	Α	С
MOTA	472	CG	PHE	A	69	47.511	75.904	-8.820	1.00 33.85	Α	C
MOTA	473	CD1	PHE	А	69	47.802	75.257	-10.020	1.00 33.47	Α	C
MOTA	474	CD2	PHE	Α	69	48.204	77.070	-8.498	1.00 34.00	Α	С
MOTA	475	CE1	PHE	A	69	48.769	75.760	-10.891	1.00 34.54	A	С
MOTA	476	CE2	PHE	Α	69	49.181	77.589	-9.363	1.00 35.26	Α	C
ATOM	477	CZ	PHE	Α	69	49.465	76.930	-10.564	1.00 34.82	Α	С
ATOM	478	С	PHE	Α	69	48.242	74.364	-6.411	1.00 30.72	Α	С
ATOM	479	0	PHE	Α	69	49.303	73.874	-6.794	1.00 30.19	A	ō
ATOM	480	N	ASN	А	70	48.156	75.173	-5.353	1.00 31.09	A	N
ATOM	481	CA	ASN	Α	70	49.328	75.536	-4.562	1.00 30.67	A	C
ATOM	482	CB	ASN		70	48.922	76.509	-3.440	1.00 33.81	Α	C
ATOM	483	CG	ASN		70	49.005	77.948	-3.879	1.00 36.46	A	C
ATOM	484		ASN		70	48.902	79.039	-3.325	1.00 30.40	A	0
ATOM	485		ASN		70	49.593	77.785	-5.076	1.00 37.82		N
ATOM	486	C	ASN		70	50.055	74.312			A	
MOTA	487	0	ASN		70			-4.020	1.00 29.56	A	C
ATOM	488	N				51.282	74.274	-4.011	1.00 30.04	A	0
MOTA	489		ALA		71	49.295	73.315	-3.577	1.00 28.17	A	N
ATOM		CA	ALA		71	49.879	72.087	-3.056	1.00 27.97	A	C
	490	CB	ALA		71	48.789	71.199	-2.471	1.00 26.70	A	C
MOTA	491	C	ALA		71	50.650	71.340	-4.157	1.00 27.98	A	C
ATOM	492	0	ALA		71	51.620	70.634	-3.873	1.00 28.18	A	0
ATOM	493	N	PHE		72	50.215	71.495	-5.407	1.00 27.64	A	N
ATOM	494	CA	PHE		72	50.896	70.863	-6.537	1.00 27.38	A	С
MOTA	495	CB	PHE		72	50.002	70.814	-7.781	1.00 24.82	A	C
ATOM	496	CG	PHE		72	49.156	69.580	-7.891	1.00 22.86	A	С
MOTA	497	CD1			72	48.117	69.344	-7.000	1.00 21.89	A	С
ATOM	498	CD2	PHE		72	49.370	68.675	-8.921	1.00 21.93	A	С
ATOM	499		PHE		72	47.290	68.223	-7.136	1.00 22.35	A	С
MOTA	500		PHE		72	48.549	67.545	-9.068	1.00 22.50	A	С
MOTA	501	CZ	PHE	A	72	47.505	67.320	-8.174	1.00 20.82	A	C
MOTA	502	С	PHE	Α	72	52.114	71.700	-6.882	1.00 28.87	A	С
ATOM	503	0	PHE		72	53.157	71.178	-7.251	1.00 29.03	A	0
ATOM	504	N	ASP	Α	73	51.956	73.015	-6.768	1.00 30.99	A	N
MOTA	505	CA	ASP	A	73	53.020	73.955	-7.087	1.00 33.55	A	С
MOTA	506	CB	ASP	Α	73	52.393	75.322	-7,402	1.00 31.25	A	C
MOTA	507	CG	ASP	Α	73	53.415	76.358	-7.858	1.00 30.44	A	C
MOTA	508	OD1	ASP	Α	73	54.362	76.009	-8.599	1.00 28.44	A	0
ATOM	509		ASP		73	53.249	77.537	-7.486	1.00 30.39	A	Ō
MOTA	510	С	ASP		73	54.008	74.060	-5.922	1.00 36.40	A	C
MOTA	511	0	ASP		73	54.062	75.081	-5.241	1.00 36.87	A	o
MOTA	512	N	THR		74	54.782	72.999	-5.699	1.00 38.77	A	N
ATOM	513	CA	THR		74	55.754	72.968	-4.607	1.00 41.44	A	C
ATOM	514	СВ	THR		74	56.427	71.574	-4.471	1.00 41.44	A	C
ATOM	515		THR		74	56.934	71.374	-5.741	1.00 39.77	A	0
ATOM	516		THR		74	55.439	70.552	-3.741	1.00 39.38		C
	517	C	THR		74	56.852	74.021			A n	C
ATOM	518	0	THR		74	57.296	74.021	-4.752	1.00 43.85	A	
ATOM	519	N	THR		75	57.296		-3.756	1.00 44.49	A	O
ATOM	520	CA	THR		75 75		74.266	-5.983	1.00 45.93	A	N
	220	~~·	TIIN	n	, ,	58.331	75.260	-6.204	1.00 47.91	A	C

ATOM	521	СВ	THR	Α	75	58.963	75.117	-7.599	1.00 4	8.33	7	Ą	С
MOTA	522	OG1	THR	Α	75	57.979	75.377	-8.605	1.00 4	8.93	7	4	0
ATOM	523	CG2	THR	Α	75	59.505	73.709	-7.787	1.00 4	8.99	1	A	С
MOTA	524	С	THR	Α	75	57.760	76.667	-6.048	1.00 4	8.76	Ž	4	С
MOTA	525	0	THR	Α	75	58.485	77.649	-6.140	1.00 4	9.03	1	4	0
MOTA	526	N	GLN	Α	76	56.456	76.754	-5.809	1.00 5	0.04	1	À	N
MOTA	527	CA	GLN	Α	76	55.788	78.038	-5.620	1.00 5	1.48	1	4	С
MOTA	528	CB	GLN	Α	76	56.224	78.648	-4.287	1.00 5	3.32	7	4	С
MOTA	529	CG	GLN	A	76	55.751	77.852	-3.088	1.00 5		i	Ą	С
MOTA	530	CD	GLN	A	76	54.247	77.944	-2.904	1.00 5			A	С
MOTA	531	OE1	GLN	Α	76	53.731	78.959	-2.432	1.00 6			4	0
MOTA	532	NE2	GLN	Α	76	53.532	76.890	-3.289	1.00 5			Ą	N
MOTA	533	С	GLN	A	76	56.057	79.019	-6.755	1.00 5			Ą	С
MOTA	534	0	GLN	A	76	56.177	80.223	-6.535	1.00 5			A.	0
MOTA	535	N	THR	Α	77	56.140	78.495	-7.973	1.00 5			A.	N
MOTA	536	CA	THR		77	56.397	79.310	-9.153	1.00 5			A	С
MOTA	537	CB	THR		77	57.233		-10.180	1.00 5			A	C
MOTA	538		THR	A	77	57.218		-11.426	1.00 5			A	0
MOTA	539	CG2	THR		77	56.658		-10.406	1.00 5			A. -	C
ATOM	540	C	THR		77	55.127	79.787	-9.853	1.00 4			A.	C
MOTA	541	0	THR		77	55.197		-10.799	1.00 5			A	0
MOTA	542	N	GLY		78	53.970	79.325	-9.389	1.00 4			A N	N
MOTA	543	CA	GLY		78	52.723		-10.025	1.00 4			A N	C
MOTA	544	С	GLY		78	52.547		-11.306	1.00 4			A ¬	C
ATOM	545	0	GLY		78	51.585		-12.044	1.00 4			A N	0
ATOM	546	N	SER		79	53.483		-11.566	1.00 4			A N	N C
MOTA	547	CA	SER		79 70	53.438		-12.765	1.00 4			A A	C
ATOM	548	CB	SER		79 70	54.436		-13.799	1.00 4			A	0
ATOM	549	OG C	SER		79 70	54.476		-14.940 -12.463	1.00 4			A	Ç
ATOM	550	C 0	SER SER		79 79	53.753 54.882		-12.106	1.00 4			A	0
ATOM ATOM	551 552	И	VAL		80	52.767		-12.617	1.00 4			A	N
ATOM	553	CA	VAL		80	52.707		-12.351	1.00 4			A	C
ATOM	554	CB	VAL		80	51.700		-11.889	1.00 4			A	Č
MOTA	555		VAL		80	51.700		-11.817	1.00 4			A	C
ATOM	556		VAL		80	51.258		-10.527	1.00 3			A	С
MOTA	557	C	VAL		80	53.555		-13.559	1.00 4			A	C
ATOM	558	Ö	VAL		80	52.880		-14.573	1.00 4			Α	0
ATOM	559	N	LYS		81	54.802		-13.437	1.00 4			A	N
MOTA	560	CA	LYS		81	55.472		-14.497	1.00 4	10.17		Α	С
MOTA	561	СВ	LYS		81	56.964		-14.255	1.00 4	11.22		A	C
ATOM	562	CG	LYS		81	57.559		-14.627	1.00 4	12.21		A	С
MOTA	563	CD	LYS	A	81	58.657	73.328	-13.658	1.00 4			A	C
ATOM	564	CE	LYS	Α	81	58.177	74.409	-12.684	1.00 2	20.00		A	C
MOTA	565	NZ	LYS	Α	81	59.201	74.646	-11.668	1.00 2	20.00		A	N
MOTA	566	С	LYS	Α	81	55.001	70.014	-14.458	1.00 3			A	С
MOTA	567	0	LYS	Α	81	54.283	69.603	-13.545	1.00 3	39.42		A	0
ATOM	568	N	PHE	Α	82	55.431		-15.443	1.00 3			A	N
ATOM	569	CA	PHE	A	82	55.062	67.840	-15.524	1.00 3			A	С
MOTA	570	CB	PHE		82	55.644		-16.791	1.00			A	С
MOTA	571	CG	PHE		82	55.413		-16.899	1.00			A	C
MOTA	572		PHE		82	54.119		-16.906	1.00			A	C
MOTA	573		PHE		82	56.491		-16.988	1.00			A	C
ATOM	574		PHE		82	53.895		-17.000	1.00			A	C
ATOM	575		PHE		82	56.280		-17.083	1.00			A	C
ATOM	576	CZ	PHE		82	54.975		-17.090	1.00			A A	C
MOTA	577	C	PHE		82	55.537		-14.299	1.00			A A	0
ATOM	578 570	0	PHE		82	54.778		-13.714	1.00			A A	N
ATOM	579	N	GLU		83	56.788		-13.902	1.00			A	C
ATOM	580	CA CB	GLU GLU		83	57.284		-12.754	1.00			A	C
ATOM	581	CG	GLU		83	58.789		-12.526	1.00			A	C
MOTA	582	CG	GLU	A	83	59.209	00.199	-12.244	1.00) T . O.4		^	

ATOM	583	CD C	GLU A	4	83		68.318		1.00 5		A	C
MOTA	584	OE1 C	GLU A	A.	83		69.458		1.00 5		A	0
MOTA	585	OE2	GLU A	4	83		67.271		1.00		A	0 C
MOTA	586	C	GLU A	4	83		66.821		1.00 4		A	0
MOTA	587		GLU A		83		65.918		1.00 4		A A	И
MOTA	588		ASP A		84		68.076		1.00 4		A	C
MOTA	589		ASP A		84		68.448		1.00 4		A	C
MOTA	590		ASP A		84			-10.154	1.00 4		A	Ċ
MOTA	591		ASP A		84	56.102		-10.314 -9.791	1.00		A	Ö
ATOM ·	592	OD1			84	57.187 55.949	70.491	-10.955	1.00		A	Ō
MOTA	593		ASP A		84	54.024		-10.145	1.00		A	C
ATOM	594		ASP A		84	53.579	67.124	-9.122	1.00		Α	0
MOTA	595		ASP A		84 85	53.448		-11.334		41.14	Α	N
MOTA	596		PHE A		85	52.210		-11.582	1.00		А	С
ATOM	597		PHE :		85	51.820		-13.050	1.00		A	. C
MOTA	598 599		PHE .		85	50.446		-13.358	1.00		Α	С
ATOM	600	CD1			85	49.334		-13.039	1.00	43.86	A	С
MOTA	601	CD2			85	50.256		-13.927	1.00	44.09	Α	C
ATOM ATOM	602	CE1			85	48.046		-13.281	1.00	45.60	A	С
ATOM	603		PHE		85	48.973		-14.175	1.00	45.64	A	С
MOTA	604		PHE		85	47.864		-13.850	1.00	46.43	A	С
ATOM	605		PHE		85	52.320		-11.253	1.00	37.42	A	С
ATOM	606		PHE		85	51.448	64.832	-10.588	1.00	35.98	A	0
ATOM	607		VAL		86	53.385		-11.735	1.00	36.44	A	N
MOTA	608		VAL		86	53.596		-11.491	1.00	36.35	A	C
ATOM	609		VAL		86	54.702		-12.405	1.00	37.13	A	С
ATOM	610	-	VAL		86	54.131	62.405	-13.780	1.00	37.91	A	С
ATOM	611		VAL		86	55.830		-12.540	1.00	37.67	A	C
MOTA	612	C	VAL		86	53.968	63.057	-10.041		34.95	A	
ATOM	613	0	VAL		86	53.526	62.083	-9.437		35.19	A	
ATOM	614	N	THR		87	54.781	63.944	-9.485		33.62	A	
ATOM	615	CA	THR	Α	87	55.193	63.834	-8.100		32.27	A	
ATOM	616	CB	THR	Α	87	56.123	65.016	-7.716		33.50	A	
ATOM	617	OG1	THR	Α	87	57.359	64.902	-8.439		33.14	A	
MOTA	618	CG2	THR	Α	87	56.408	65.026	-6.213	1.00	32.45	A	
MOTA	619	С	THR	Α	87	53.966	63.807		1.00	31.40	A	_
ATOM	620	0	THR	A	87	53.923	63.033		1.00	31.47	A	
MOTA	621	N	ALA	Α	88	52.961	64.636			30.15	A	
MOTA	622	CA	ALA	А	88	51.759	64.654			28.94	A	_
MOTA	623	CB	ALA		88	50.977	65.937		1.00	28.27	A A	
MOTA	624	C	ALA		88	50.878	63.451			28.61	A	
MOTA	625	0	ALA		88	50.215	62.915			28.30 28.82	Ā	
MOTA	626	N	LEU		89	50.867	63.030			30.54	A	
MOTA	627	CA	LEU		89	50.065	61.883	-8.567 -10.093		31.99	A	
MOTA	628	CB	LEU		89	49.974				33.85	A	
MOTA	629	CG	LEU		89	48.546		-10.587 -12.080		36.98	7	
MOTA	630		LEU		89	48.546 47.659		-10.221		34.12	P	
MOTA	631		LEU		89	50.640	60.600			29.50	I	_
MOTA	632	C	LEU		89	49.895	59.711			30.20		. 0
MOTA	633	0	LEU		89 90	51.963	60.518			28.85	7	N
MOTA	634	N CA	SER SER		90	52.648	59.352			30.03	7	A C
ATOM	635 636		SER		90	54.154	59.618			31.84	2	A C
MOTA MOTA	637		SER		90	54.864	58.524			36.25	7	<i>O</i>
MOTA	638		SER		90	52.115	59.06			29.31	1	A C
MOTA	639		SER		90	51.840	57.914			27.98	1	Α Ο
MOTA	640		ILE		91	51.970	60.123			27.85	i	A N
MOTA	641		ILE		91	51.468	60.03		1.00	28.44	1	A C
MOTA	642		ILE		91	51.880	61.29		1.00	28.56		A C
ATOM	643		ILE			51.103	61.24			28.30		A C
ATOM	644		ILE			53.310	61.74		1.00	29.04		A C

ATOM	645	CD1	ILE	Α	91	53.976	63.079	-3.108	1.00 20.00	Α	С
MOTA	646	C	ILE	Α	91	49.954	59.796	-3.832	1.00 28.99	A	С
MOTA	647	0	ILE	Α	91	49.487	58.799	-3.274	1.00 30.63	A	0
MOTA	648	N	LEU	Α	92	49.193	60.702	-4.437	1.00 28.76	A	N
MOTA	649	CA	LEU	Α	92	47.741	60.605	-4.456	1.00 29.36	A	С
MOTA	650	CB	LEU		92	47.145	61.795	-5.213	1.00 30.85	A	С
MOTA	651	CG	LEU		92	46.694	63.034	-4.434	1.00 31.77	A	С
MOTA	652		LEU		92	47.583	63.297	-3.239	1.00 32.28	Α	С
MOTA	653		LEU		92	46.709	64.219	-5.385	1.00 34.00	A	С
MOTA	654	С	LEU		92	47.214	59.321	-5.067	1.00 29.89	A	С
MOTA	655	0	LEU		92	46.221	58.774	-4.595	1.00 30.08	A	0
MOTA	656	N	LEU		93	47.867	58.845	-6.121	1.00 29.81	A	И
MOTA	657	CA	LEU		93	47.424	57.625	-6.779	1.00 31.74	A	C
ATOM	658	CB	LEU		93	47.835	57.625	-8.253	1.00 32.18	A	C
MOTA	659	CG	LEU LEU		93 93	47.444	56.301	-8.915	1.00 33.07 1.00 34.56	A	C
MOTA MOTA	660 661		LEU		93	45.922 47.949	56.180	-8.854 -10.355	1.00 34.36	A A	C
ATOM	662	CDZ	LEU		93	47.916	56.320	-6.145	1.00 33.22	A	C
ATOM	663	0	LEU		93	47.132	55.402	-5.921	1.00 32.02	A	0
ATOM	664	N	ARG		94	49.210	56.216	-5.875	1.00 33.25	A	N
MOTA	665	CA	ARG		94	49.712	54.983	-5.298	1.00 33.50	A	C
MOTA	666	СВ	ARG		94	50.395	54.137	-6.391	1.00 35.06	A	C
ATOM	667	CG	ARG		94	51.272	54.914	-7.339	1.00 36.17	A	C
MOTA	668	CD	ARG		94	51.978	54.014	-8.351	1.00 36.55	Α	C
ATOM	669	NE	ARG		94	51.102	53.414	-9.360	1.00 36.08	Α	N
ATOM	670	CZ	ARG	Α	94	51.549	52.805	-10.460	1.00 35.79	A	С
ATOM	671	NH1	ARG	Α	94	52.854	52.725	-10.690	1.00 34.17	A	N
ATOM	672	NH2	ARG	Α	94	50.703	52.260	-11.326	1.00 34.35	Α	N
MOTA	673	С	ARG	Α	94	50.621	55.132	-4.084	1.00 32.71	A	С
MOTA	674	0	ARG	А	94	51.527	54.329	-3.878	1.00 34.42	A	0
MOTA	675	N	GLY		95	50.380	56.160	-3.276	1.00 31.48	A	N
MOTA	676	CA	GLY		95	51.168	56.339	-2.072	1.00 28.93	A	C
ATOM	677	C	GLY		95	50.508	55.559	-0.941	1.00 27.51	A	С
ATOM	678	0	GLY		95	49.416	55.012	-1.124	1.00 27.29	A	0
ATOM	679	N	THR		96	51.159	55.494	0.219	1.00 26.33	A	N
ATOM	680	CA	THR		96	50.604	54.791	1.378	1.00 26.30 1.00 27.26	A A	C
ATOM ATOM	681 682	CB OG1	THR		96 96	51.702 52.431	54.387 55.553	2.394 2.812	1.00 27.28	A	0
MOTA	683	CG2	THR		96	52.658	53.373	1.774	1.00 28.16	A	C
MOTA	684	C	THR		96	49.634	55.717	2.087	1.00 26.36	A	C
ATOM	685	ō	THR		96	49.679	56.929	1.882	1.00 26.13	A	0
ATOM	686	N	VAL		97	48.759	55.161	2.924	1.00 27.73	A	N
MOTA	687	CA	VAL	Α	97	47.800	56.002	3.635	1.00 28.30	A	С
MOTA	688	CB	VAL	A	97	46.925	55.191	4.628	1.00 28.87	A	С
MOTA	689	CG1	VAL	Α	97	45.933	54.329	3.863	1.00 29.43	A	C
MOTA	690	CG2	VAL	A	97	47.798	54.317	5.500	1.00 31.32	A	С
ATOM	691	C	VAL		97	48.570	57.069	4.392	1.00 27.84	A	С
MOTA	692	0	VAL		97	48.183	58.236	4.424	1.00 28.56	A	0
MOTA	693	N	HIS		98	49.690	56.664	4.968	1.00 27.83	A	N
ATOM	694	CA	HIS		98	50.533	57.575	5.728	1.00 29.38	A	C
ATOM ATOM	695 696	CB CG	HIS HIS		98 98	51.711	56.788	6.301	1.00 33.32	A A	C
MOTA	697		HIS		98	51.311 51.273	55.468 54.227	6.887 6.340	1.00 38.48 1.00 38.90	A	C
MOTA	698		HIS		98	50.801	55.341	8.165	1.00 38.50	A	N
ATOM	699		HIS		98	50.467	54.080	8.379	1.00 40.81	A	C
MOTA	700		HIS		98	50.741	53.384	7.288	1.00 41.98	A	N
MOTA	701	С	HIS		98	51.023	58.722	4.843	1.00 27.81	A	C
MOTA	702	0	HIS		98	50.969	59.890	5.242	1.00 26.52	Α	0
MOTA	703	N	GLU		99	51.489	58.380	3.642	1.00 26.58	Α	N
MOTA	704	ÇA	GLU		99	51.984	59.372	2.693	1.00 27.17	A	С
MOTA	705	CB	GLU		99	52.692	58.678	1.524	1.00 28.47	Α	C
MOTA	706	CG	GLU	A	99	53.910	57.900	1.971	1.00 30.97	A	С

MOTA	707	CD	GLU	A	99	54.498	57.031	0.885	1.00 32.49	А	С
MOTA	708	OE1	GLU	A	99	53.759	56.243	0.252	1.00 32.75	A	ō
MOTA	709	OE2			99	55.718	57.130	0.675	1.00 35.40	Α	0
ATOM	710	C	GLU		99	50.856	60.252	2.180	1.00 26.61	Α	С
ATOM	711	0	GLU		99	51.019	61.469	2.063	1.00 26.82	Α	0
ATOM ATOM	712 713	N CA	LYS LYS			49.709	59.641	1.887	1.00 26.10	A	N
ATOM	714	CB	LYS		100 100	48.547 47.406	60.393	1.404	1.00 27.94	A	C
ATOM	715	CG	LYS			47.400	59.441 58.587	1.024	1.00 27.77 1.00 29.04	A	C
ATOM	716	CD	LYS			46.470	57.614	-0.358	1.00 29.04	A A	C
MOTA	717	CE	LYS			46.579	56.699	-1.554	1.00 30.40	A	C
MOTA	718	NZ	LYS			45.448	55.722	-1.538	1.00 30.56	A	N
MOTA	719	С	LYS	A	100	48.037	61.401	2.453	1.00 27.75	A	C
ATOM	720	0	LYS		100	47.776	62.569	2.132	1.00 27.49	A	0
ATOM	721	N	LEU		101	47.890	60.945	3.698	1.00 27.57	A	N
ATOM	722	CA	LEU			47.434	61.813	4.777	1.00 28.80	A	С
ATOM ATOM	723 724	CB CG	LEU LEU			47.261	61.015	6.064	1.00 28.23	A	C
ATOM	725		LEU			46.140	59.984	6.048	1.00 27.66	A	C
ATOM	726		LEU			46.205 44.811	59.118 60.720	7.301 5.924	1.00 25.77 1.00 27.84	A	C
ATOM	727	C	LEU			48.410	62.958	5.034	1.00 27.84	A A	C
ATOM	728	0	LEU			48.011	64.047	5.430	1.00 31.54	A	0
MOTA	729	N	ARG	Α	102	49.694	62.715	4.821	1.00 30.37	A	N
ATOM	730	CA	ARG			50.672	63.767	5.045	1.00 31.12	Α	C
MOTA	731	CB	ARG			52.084	63.187	5.016	1.00 32.26	A	С
ATOM ATOM	732	CG	ARG			52.796	63.311	6.339	1.00 34.48	A	С
ATOM	733 734	CD NE	ARG ARG			53.668	62.091	6.655	1.00 36.31	A	С
ATOM	735	CZ	ARG			52.867	60.912	6.985	1.00 36.96	A	И
ATOM	736	NH1	ARG			53.092 54.090	60.124 60.390	8.031 8.852	1.00 35.54 1.00 36.26	A	C
ATOM	737		ARG			52.322	59.070	8.255	1.00 35.26	A A	N N
ATOM	738	С	ARG .			50.509	64.825	3.972	1.00 30.36	A	C
MOTA	739	0	ARG .			50.700	66.018	4.218	1.00 31.22	A	ō
ATOM	740	N	TRP .			50.142	64.377	2.778	1.00 29.12	A	N
MOTA	741	CA	TRP .			49.944	65.279	1.651	1.00 27.44	A	С
ATOM	742	CB	TRP .			49.687	64.471	0.374	1.00 26.67	A	С
MOTA MOTA	743 744	CG CD2	TRP .			49.872	65.265	-0.857	1.00 26.18	A	С
ATOM	745	CE2	TRP I			48.897 49.530	66.104	-1.484	1.00 26.58	A	C
ATOM	746	CE3	TRP			47.551	66.727 66.397	-2.586 -1.217	1.00 26.41 1.00 26.70	A A	C
MOTA	747	CD1	TRP			51.023	65.404	-1.582	1.00 25.70	A	C
MOTA	748	NE1	TRP A			50.826	66.281	-2.622	1.00 26.97	A	N
ATOM	749		TRP A			48.864	67.629	-3.424	1.00 26.27	A	C
ATOM	750		TRP A			46.885	67.298	-2.052	1.00 27.71	A	С
ATOM	751		TRP A			47.548	67.903	-3.144	1.00 27.34	A	С
MOTA MOTA	752	C	TRP I			48.740	66.170	1.961	1.00 27.40	A	С
ATOM	753 754	N O	TRP I			48.769	67.377	1.754	1.00 25.78	A	0
ATOM	755	CA	THR A			47.681 46.473	65.555	2.468	1.00 27.69	A	N
ATOM	756	CB	THR A			45.349	66.287 65.322	2.810 3.183	1.00 28.08 1.00 27.91	A N	C
MOTA	757		THR A			45.081	64.483	2.059	1.00 27.31	A A	0
MOTA	758	CG2				44.081	66.083	3.560	1.00 27.86	A.	C
MOTA	759	C	THR A	A.	104	46.723	67.252	3.961	1.00 28.03	A	Ċ
MOTA	760	0	THR A			46.274	68.396	3.915	1.00 28.63	A	0
ATOM	761	N	PHE A			47.433	66.798	4.994	1.00 27.80	A	N
ATOM	762 763	CA	PHE A			47.744	67.681	6.115	1.00 28.18	A	С
MOTA MOTA	763 764	CB CG	PHE A			48.679	67.004	7.129	1.00 27.89	A	С
ATOM	765		PHE A			49.014	67.880	8.322	1.00 27.71	A	C
ATOM	766		PHE A			48.186 50.121	67.903	9.445	1.00 27.14	A.	С
MOTA	767		PHE A			48.451	68.731 68.767	8.293 10.530	1.00 26.67 1.00 26.97	A A	C
MOTA	768		PHE A			50.395	69.597	9.366	1.00 28.97	A.	C
			-			_0.555		2.300	2.00 27.90	r.	_

ATOM	769	CZ	PHE	A	105	49.554	69.614	10.490	1.00 26.63	Α	С
ATOM	770	С	PHE	Α	105	48.432	68.933	5.568	1.00 28.24	Α	С
MOTA	771	0	PHE			48.062	70.046	5.911	1.00 26.84	Α	0
MOTA	772	N	ASN			49.432	68.737	4.709	1.00 30.20	A	N
MOTA	773	CA	ASN			50.170	69.849	4.114	1.00 32.19	A	C
ATOM	774	CB	ASN			51.306	69.311	3.227	1.00 33.63	A	С
MOTA	775	CG	ASN			52.514	68.851	4.034	1.00 36.08	A	C
MOTA	776		ASN			53.333	68.054	3.557	1.00 36.89	A	0
ATOM	777		ASN			52.641	69.365	5.258	1.00 35.48	A A	N C
ATOM	778	C	ASN			49.272	70.804	3.310	1.00 33.04 1.00 33.57	A	0
ATOM	779	0	ASN			49.525	72.010	3.252 2.688	1.00 33.57	A	И
ATOM	780	N	LEU			48.231	70.264	1.921	1.00 34.88	A	C
ATOM	781	CA	LEU			47.305 46.302	71.085 70.197	1.179	1.00 34.86	A	C
ATOM	782	CB CG	LEU			45.143	70.137	0.464	1.00 37.60	A	C
ATOM ATOM	783 784		LEU			45.458	71.057	-1.025	1.00 37.85	A	C
ATOM	785		LEU			43.873	70.071	0.649	1.00 37.46	A	c
ATOM	786	C	LEU			46.552	72.025	2.872	1.00 35.52	A	C
ATOM	787	0	LEU			46.439	73.224	2.606	1.00 35.29	A	0
ATOM	788	N	TYR			46.037	71.471	3.974	1.00 36.01	A	N
ATOM	789	CA	TYR			45.303	72.250	4.974	1.00 36.09	A	С
ATOM	790	CB	TYR			44.613	71.332	5.984	1.00 35.29	A	С
MOTA	791	CG	TYR			43.312	70.726	5.499	1.00 37.20	A	С
ATOM	792	CD1	TYR			43.299	69.788	4.466	1.00 36.25	A	С
ATOM	793	CE1	TYR	Α	108	42.111	69.221	4.025	1.00 36.62	A	C
ATOM	794	CD2	TYR	Α	108	42.087	71.084	6.084	1.00 36.40	A	С
ATOM	795	CE2	TYR	А	108	40.890	70.521	5.653	1.00 36.63	A	С
MOTA	796	CZ	TYR	Α	108	40.911	69.587	4.620	1.00 37.38	A	C
MOTA	797	OH	TYR	Α	108	39.739	69.003	4.180	1.00 38.31	A	0
MOTA	798	С	TYR	Α	108	46.210	73.224	5.724	1.00 36.71	Α	С
MOTA	799	0	TYR	Α	108	45.771	74.297	6.146	1.00 36.06	Α	0
MOTA	800	N	ASP	Α	109	47.471	72.849	5.904	1.00 37.83	A	N
MOTA	801	CA	ASP			48.410	73.726	6.591	1.00 39.85	A	С
MOTA	802	CB	ASP			49.607	72.920	7.110	1.00 39.04	A	С
MOTA	803	CG	ASP	A	109	50.678	73.795	7.736	1.00 38.35	A	C
MOTA	804		ASP			50.364	74.909	8.203	1.00 35.94	A	0
MOTA	805		ASP			51.842	73.353	7.774	1.00 39.76	A	0
MOTA	806	С	ASP			48.857	74.790	5.594	1.00 40.74	A	C
MOTA	807	0	ASP			49.989	74.790	5.121	1.00 41.22	A	0
MOTA	808	N			110	47.942	75.701	5.292	1.00 42.10	A	И С
ATOM	809	CA			110	48.175	76.771	4.335	1.00 43.20 1.00 43.00	A A	C
ATOM	810	CB			110 110	46.965	77.725 78.799	4.297 3.227	1.00 43.00	A	C
ATOM ATOM	811 812	CG2	ILE			47.183 45.682	76.925	4.028	1.00 41.16	A	Ċ
MOTA	813	CD1			110	44.425	77.754	3.998	1.00 39.75	A	Ċ
ATOM	814	C			110	49.449	77.596	4.552	1.00 33.73	A	C
ATOM	815	Ö			110	50.190	77.860	3.604	1.00 45.92	A	· ō
ATOM	816	N			111	49.708	78.008	5.786	1.00 45.82	A	N
ATOM	817	CA			111	50.891	78.812	6.056	1.00 47.02	A	C
ATOM	818	CB			111	50.646	79.740	7.251	1.00 47.53	Α	С
ATOM	819	CG			111	50.549	78.990	8.575	1.00 48.29	A	С
ATOM	820		ASN			50.446	79.602	9.631	1.00 48.24	A	0
MOTA	821		ASN			50.581	77.666	8.518	1.00 48.53	A	N
MOTA	822	С			111	52.136	77.970	6.308	1.00 48.10	Α	С
ATOM	823	0	ASN	Α	111	53.182	78.502	6.660	1.00 49.72	Α	0
MOTA	824	N			112	52.026	76.658	6.123	1.00 49.13	A	N
MOTA	825	CA	LYS	A	112	53.154	75.756	6.334	1.00 49.52	A	С
MOTA	826	CB			112	54.202	75.947	5.231	1.00 51.10	A	С
MOTA	827	CG	LYS	Α	112	53.905	75.165	3.958	1.00 52.08	A	С
MOTA	828	CD			112	52.522	75.496	3.406	1.00 54.09	Α	С
MOTA	829	CE			112	52.073	74.498	2.347	1.00 53.18	A	C
MOTA	830	NZ	LYS	A	112	50.664	74.761	1.949	1.00 53.57	A	N

MOTA	831	С	LYS	A	112	53.785	75.960	7.705	1.00	49.43	A	С
MOTA	832	0	LYS	A	112	55.006	75.972	7.851	1.00	49.54	A	0
MOTA	833	N	ASP	Α	113	52.912	76.121	8.696	1.00	48.94	A	N
ATOM	834	CA	ASP	A	113	53.255	76.313	10.101	1.00	47.30	A	С
ATOM	835	CB	ASP	A	113	51.986	76.655	10.885	1.00	48.03	A	С
MOTA	836	CG	ASP	Α	113	52.161	77.840	11.791	1.00	48.37	A	C
MOTA	837	OD1	ASP	Α	113	53.288	78.050	12.269	1.00	50.41	A	0
MOTA	838	OD2	ASP	А	113	51.171	78.555	12.036	1.00	47.14	A	0
MOTA	839	С	ASP	Α	113	53.777	74.997	10.646	1.00	46.48	A	С
MOTA	840	0	ASP	Α	113	54.706	74.951	11.449	1.00	46.33	A	0
MOTA	841	N	GLY	Α	114	53.138	73.924	10.197	1.00	45.61	A	N
MOTA	842	CA	GLY	Α	114	53.474	72.591	10.646	1.00	43.32	A	C
ATOM	843	C	GLY	A	114	52.270	72.190	11.464	1.00	42.33	A	С
MOTA	844	0	GLY	Α	114	52.193	71.085	12.005	1.00	42.23	A	0
MOTA	845	N	TYR	A	115	51.320	73.118	11.542	1.00	40.41	A	N
ATOM	846	CA	TYR			50.094	72.924	12.299	1.00	40.02	A	С
ATOM	847	CB	TYR			50.201	73.631	13.645	1.00	42.80	A	С
ATOM	848	CG	TYR			51.568	73.559	14.261	1.00	44.93	A	C
ATOM	849	CD1	TYR			52.092	72.344	14.699	1.00	45.68	A	С
MOTA	850	CE1	TYR			53.357	72.268	15.259	1.00	46.70	A	С
ATOM	851	CD2	TYR			52.347	74.704	14.399	1.00	45.76	A	С
ATOM	852	CE2	TYR			53.619	74.638	14.961	1.00	47.54	A	С
MOTA	853	CZ	TYR			54.115	73.415	15.389	1.00	46.96	A	С
ATOM	854	ОН	TYR			55.364	73.342	15.953		48.34	A	0
MOTA	855	C	TYR			48.896	73.506	11.556	1.00	38.45	A	C
ATOM	856	0	TYR			49.054	74.308	10.639	1.00	37.35	A	0
MOTA	857	N	ILE			47.700	73.104	11.976	1.00	36.67	A	N
MOTA	858	CA	ILE			46.464	73.601	11.384		35.92	\mathbf{A}_{\cdot}	С
ATOM	859	CB	ILE			45.569	72.461	10.840		34.57	A	С
ATOM	860	CG2	ILE			44.325	73.051	10.193		34.19	A	С
ATOM	861	CG1	ILE			46.323	71.613	9.820		33.31	A	С
MOTA	862	CD1	ILE			45.566	70.371	9.389		31.71	A	С
MOTA	863	C	ILE			45.652	74.330	12.447		36.18	A	С
MOTA	864	0	ILE			45.357	73.765	13.498		36.64	A	0
MOTA	865	N	ASN			45.300	75.585	12.189		36.49	A	N
ATOM	866	CA	ASN			44.480	76.328	13.145		37.49	A	C
ATOM	867	CB	ASN			44.991	77.767	13.347		38.04	A	C
ATOM	868	CG	ASN			45.143	78.532	12.043		38.09	A	C
ATOM	869		ASN			44.229	78.586	11.221		37.38	A	0
ATOM	870		ASN			46.304	79.138	11.857		39.11	A	И
ATOM	871	C	ASN			43.055	76.354	12.620		37.18	A	С
MOTA	872	0	ASN			42.799	75.942	11.487		36.41	A	0
MOTA	873	N	LYS			42.127	76.829	13.444		37.73	A	N
ATOM	874	CA	LYS			40.731	76.890	13.035		38.96	A	C
ATOM	875	CB	LYS			39.872	77.433	14.179		39.43	A	C
ATOM ATOM	876 877	CG CD	LYS			39.629	76.421	15.292		41.09	A	C
ATOM	878	CE	LYS			38.275	75.758	15.136		41.52	A	C
ATOM	879	NZ	LYS			37.204	76.476	15.946		42.02	A	C
ATOM	880	C	LYS			37.006	75.836	17.286		42.31	A	N
ATOM	881	0	LYS LYS			40.554	77.743	11.781		38.88	A	C
ATOM	882	N	GLU			39.795	77.382	10.884		38.09	A N	0
ATOM	883	CA	GLU			41.272 41.180	78.863	11.716		39.22	A N	N
ATOM	884	CB					79.761	10.571		39.84	A	C
MOTA	885	CG	GLU GLU			42.105	80.967	10.760 9.708		41.61	A A	C
ATOM	886	CD	GLU			41.900 43.055	82.046			46.20	A A	C C
ATOM	887		GLU				83.033	9.607		49.21	A n	
ATOM	888		GLU			42.918 44.099	84.026	8.856		51.23 51.75	A N	0
ATOM	889	C	GLU			41.525	82.820	10.267			A A	0
ATOM	890	0	GLU			40.843	79.047 79.224	9.256 8.249		38.60 38.19	A A	0
ATOM	891	N	GLU			42.584	78.243	9.271		36.19	A A	И
ATOM	892	CA	GLU			43.001	77.509	8.079		36.18	A	C
				••		-3.301		0.079	1.00	50.10	••	_

ATOM	893	ÇВ	GLU	A	120	44.384	76.882	8.302	1.00 34.43	A	С
MOTA	894	CG	GLU	A	120	45.488	77.903	8.499	1.00 33.20	A	С
MOTA	895	CD	GLU	A	120	46.839	77.275	8.772	1.00 33.59	Α	С
ATOM	896	OE1	GLU			46.920	76.392	9.647	1.00 32.80	Α	0
MOTA	897	OE2	GLU			47.830	77.673	8.123	1.00 34.41	Α	0
ATOM	898	С	GLU	Α	120	41.981	76.423	7.748	1.00 36.33	A	С
MOTA	899	0	GLU			41.672	76.181	6.589	1.00 34.95	A	0
MOTA	900	N	MET			41.470	75.770	8.787	1.00 37.50	A	N
MOTA	901	CA	MET			40.482	74.709	8.641	1.00 39.36	A	C
MOTA	902	CB	MET	Α	121	40.104	74.185	10.031	1.00 41.72	A	C
MOTA	903	CG	MET			39.308	72.893	10.054	1.00 44.07	A	C
MOTA	904	SD	MET			40.186	71.567	9.234	1.00 48.39	A	S
MOTA	905	CE	MET			38.824	70.515	8.738	1.00 46.88	A	C
MOTA	906	C	MET			39.253	75.293	7.939	1.00 39.43	A	C 0
MOTA	907	0	MET			38.729	74.712	6.986	1.00 38.90	A A	N
ATOM	908	N	MET			38.815	76.454	8.425	1.00 39.60 1.00 39.54	A	C
ATOM	909	CA	MET			37.663	77.176 78.511	7.883 8.609	1.00 33.34	Ā	C
ATOM	910	CB	MET			37.482 36.749	78.424	9.935	1.00 41.12	A	c
ATOM ATOM	911 912	CG SD	MET MET			35.019	77.909	9.745	1.00 47.82	A	s
ATOM	912	CE	MET			34.546	78.883	8.310	1.00 47.32	A	C
ATOM	914	C	MET			37.828	77.448	6.396	1.00 38.41	A	Ċ
MOTA	915	0	MET			36.965	77.106	5.596	1.00 37.06	A	ō
MOTA	916	N	ASP			38.941	78.078	6.036	1.00 38.07	A	N
ATOM	917	CA	ASP			39.209	78.389	4.643	1.00 38.17	A	С
ATOM	918	СВ	ASP			40.628	78.933	4.493	1.00 39.92	A	С
ATOM	919	CG	ASP			40.766	80.327	5.058	1.00 42.09	Α	С
ATOM	920		ASP			39.836	81.131	4.845	1.00 43.91	A	0
ATOM	921	OD2	ASP	Α	123	41.790	80.628	5.705	1.00 44.40	A	0
ATOM	922	С	ASP	Α	123	39.009	77.181	3.741	1.00 37.46	A	С
MOTA	923	0	ASP	Α	123	38.207	77.222	2.806	1.00 37.76	A	0
MOTA	924	N	ILE	Α	124	39.725	76.102	4.035	1.00 35.71	A	N
MOTA	925	CA	ILE	Α	124	39.630	74.882	3.246	1.00 34.74	Α	C
MOTA	926	CB			124	40.590	73.781	3.785	1.00 34.89	A	С
MOTA	927	CG2	ILE			40.510	72.547	2.900	1.00 33.49	A	C
MOTA	928	CG1				42.025	74.311	3.842	1.00 34.31	A	С
ATOM	929	CD1	ILE			42.543	74.816	2.517	1.00 35.60	A	C
MOTA	930	C			124	38.215	74.312	3.234	1.00 33.82	A A	0
MOTA	931	0			124	37.691	73.955	2.179	1.00 31.89 1.00 34.16	A	И
ATOM	932	N			125	37.604	74.218 73.664	4.413 4.525	1.00 34.18	A	C
MOTA MOTA	933 934	CA CB			125 125	36.257 35.858	73.441	6.000	1.00 34.03	A	C
	935		VAL			34.426	72.902	6.076	1.00 33.31	A	C
MOTA MOTA	936		VAL			36.829	72.362	6.649	1.00 32.13	A	Ċ
ATOM	937	C			125	35.207	74.531	3.845	1.00 34.47	A	C
ATOM	938	ō			125	34.254	74.016	3.278	1.00 36.25	Α	0
ATOM	939	N			126	35.362	75.847	3.922	1.00 34.33	A	N
MOTA	940	CA			126	34.422	76.733	3.261	1.00 34.23	A	С
MOTA	941	CB			126	34.735	78.199	3.587	1.00 35.17	A	C
MOTA	942	CG	LYS	A	126	33.929	79.227	2.790	1.00 37.72	A	С
MOTA	943	CD	LYS	Α	126	32.432	79.140	3.076	1.00 39.97	Α	С
MOTA	944	CE	LYS	Α	126	31.655	80.316	2.471	1.00 40.84	Α	С
MOTA	945	NZ	LYS	Α	126	31.506	80.232	0.988	1.00 42.32	A	N
ATOM	946	С			126	34.575	76.465	1.766	1.00 33.29	A	С
MOTA	947	0	LYS	Α	126	33.604	76.503	1.035	1.00 33.30	Α	0
MOTA	948	N			127	35.793	76.173	1.322	1.00 31.99	A	N
MOTA	949	CA			127	36.023	75.879	-0.085	1.00 32.67	A	C
MOTA	950	CB			127	37.516	75.802	-0.375	1.00 30.72	A	C
MOTA	951	C			127	35.337	74.569	-0.497	1.00 33.33	A	C
ATOM	952	0			127	34.781	74.468	-1.590	1.00 33.38	A .	O N
MOTA	953	N			128	35.381	73.570	0.380	1.00 34.46	A A	N C
MOTA	954	CA	The	A	128	34.759	72.281	0.111	1.00 35.05	A	C

MOTA	955	CB	ILE	A	128	35.170	71.249	1.173	1.00	35.21	A	C
MOTA	956	CG2	ILE	Α	128	34.309	69.998	1.052	1.00	34.90	Α	С
MOTA	957	CG1			128	36.653	70.915	0.999	1.00	34.77	A	C
MOTA	958	CD1			128	37.205	69.949	2.030		34.71	Α	С
MOTA	959	C			128	33.232	72.389	0.048		35.64	A	С
ATOM	960	0			128	32.594	71.795	-0.823		35.27	A	0
ATOM	961	N			129	32.641	73.139	0.968		36.35	A	N
ATOM	962	CA			129	31.196	73.329	0.942		38.15	A	С
ATOM ATOM	963 964	CB CG			129 129	30.749	74.174	2.135		39.30	A	C
ATOM	965	CD1				30.413	72.615	3.350 4.019		41.50	A A	C
ATOM	966	CE1			129	31.078	71.823	5.130		42.72	A	C
ATOM	967	CD2	TYR			29.104	73.280	3.821		42.17	A	C
ATOM	968	CE2			129	28.777	72.494	4.927		42.50	A	c
MOTA	969	CZ			129	29.766	71.770	5.575		42.28	A	Č
MOTA	970	OH	TYR	Α	129	29.440	71.005	6.671		43.54	A	0
MOTA	971	C	TYR	Α	129	30.754	74.003	-0.372	1.00	38.06	A	С
MOTA	972	0	TYR	Α	129	29.787	73.587	-1.006	1.00	37.24	A	0
ATOM	973	N	ASP	А	130	31.466	75.045	-0.779	1.00	37.90	A	N
MOTA	974	CA	ASP	A	130	31.136	75.736	-2.013	1.00	38.38	Α	С
MOTA	975	CB			130	31.989	77.009	-2.167	1.00	37.03	Α	C
MOTA	976	CG			130	31.898	78.237	-1.272	1.00	36.44	Α	С
MOTA	977		ASP			32.768	79.093	-1.110		20.00	A	0
MOTA	978		ASP			30.941	78.091	-0.516		20.00	A	0
ATOM	979	C			130	31.267	74.788	-3.199		39.91	A	С
ATOM ATOM	980 981	O N			130	30.494	74.848	-4.156		40.47	A	0
MOTA	982	N CA	MET		131	32.247	73.899	-3.125		42.38	A	И
ATOM	983	CB			131	32.496	72.937	-4.191		45.23	A	C
ATOM	984	CG	MET			33.823 34.153	72.231 71.148	-3.935		45.52	A	C
ATOM	985	SD			131	35.867	70.633	-4.922 -4.732		46.59 49.34	A A	C S
ATOM	986	CE	MET			35.801	69.823	-3.141		47.47	A	C
ATOM	987	C	MET			31.375	71.910	-4.319		46.74	A	C
MOTA	988	ō	MET			30.965	71.566	-5.422		46.26	A	0
ATOM -	989	N	MET			30.879	71.432	-3.184		48.46	A	N
ATOM	990	CA	MET	Α	132	29.807	70.446	-3.167		51.95	A	C
MOTA	991	CB	MET			29.848	69.648	-1.866		52.66	A	C
MOTA	992	CG	MET	А	132	31.123	68.871	-1.645	1.00	54.74	A	С
MOTA	993	SD	MET	А	132	30.987	67.859	-0.156	1.00	57.01	A	s
MOTA	994	CE	MET	А	132	30.105	66.417	-0.838	1.00	56.94	A	С
ATOM	995	С	MET			28.427	71.080	-3.303	1.00	53.61	A .	С
MOTA	996	0	MET			27.424	70.380	-3.439	1.00	52.55	Α	0
ATOM	997	N			133	28.379	72.404	-3.252		56.05	A	N
MOTA	998	CA	GLY			27.106	73.086	-3.362		60.00	A	С
ATOM	999	С	GLY			26.141	72.644	-2.278		63.21	A	C
MOTA MOTA	1000 1001	N	LYS		133	26.515	72.539	-1.109		63.27	A	0
ATOM	1002	CA	LYS			24.896 23.886	72.379	-2.662		66.49	A	N
ATOM	1003	CB	LYS			22.524	71.961 72.554	-1.700 -2.066		70.14 71.36	A A	C
ATOM	1004	CG	LYS			21.865	72.334	-3.288		71.59	A	C
MOTA	1005	CD	LYS			20.649	72.732	-3.763		72.83	A	C
MOTA	1006	CE	LYS			19.565	72.864	-2.687		74.25	A	C
MOTA	1007	NZ	LYS			19.961	73.728	-1.532		75.03	A	N
MOTA	1008	С	LYS			23.786	70.449	-1.644		72.97	A	C
ATOM	1009	0	LYS			22.955	69.899	-0.926		73.33	A	Ō
MOTA	1010	N	TYR	Α	135	24.635	69.776	-2.408		75.64	A	N
MOTA	1011	CA			135	24.624	68.324	-2.422		78.10	A	С
MOTA	1012	CB			135	24.631	67.821	-3.860		80.11	A	С
MOTA	1013	CG			135	23.340	68.156	-4.561	1.00	82.16	A	C
MOTA	1014		TYR			22.138	67.574	-4.155		82.57	Α	С
MOTA	1015		TYR			20.929	67.917	-4.758		83.87	Α	С
MOTA	1016	CD2	TYR	Α	135	23.305	69.091	-5.593	1.00	82.83	Α	С

MOTA	1017	CE2	TYR	A	135	22.101	69.442	-6.203	1.00 84.02	,	Α (С
MOTA	1018	CZ	TYR	Α	135	20.918	68.851	-5.781	1.00 84.25	7	A (С
MOTA	1019	ОН	TYR	Α	135	19.728	69.195	-6.379	1.00 85.51	7	A (0
MOTA	1020	С	TYR	A	135	25.780	67.744	-1.631	1.00 79.48	1	A (С
MOTA	1021	0			135	26.312	66.683	-1.960	1.00 79.68	7	A (0
MOTA	1022	N			136	26.164	68.462	-0.580	1.00 80.52	7	1 A	N
MOTA	1023	CA	THR	A	136	27.231	68.021	0.300	1.00 81.76	I	A (С
MOTA	1024	CB	THR	A	136	27.776	69.200	1.158	1.00 81.99	I		С
MOTA	1025	OG1	THR	A	136	28.720	68.705	2.119	1.00 82.51	7		0
MOTA	1026	CG2			136	26.641	69.926	1.870	1.00 81.95	Į	A (С
MOTA	1027	С			136	26.617	66.935	1.187	1.00 82.10	Į		С
ATOM	1028	0	THR	А	136	26.343	67.145	2.368	1.00 82.13	7		0
MOTA	1029	N			137	26.382	65.779	0.570	1.00 83.02	7	1 4	N
ATOM	1030	CA			137	25.797	64.604	1.213	1.00 83.28	Į	A (С
MOTA	1031	CB			137	25.989	63.398	0.290	1.00 84.87	Į	A (C
ATOM	1032	CG			137	25.144	63.424	-0.964	1.00 86.64	I	A (С
ATOM	1033	CD1				23.751	63.381	-0.892	1.00 87.57	I	A (C
ATOM	1034	CE1				22.968	63.371	-2.049	1.00 88.39	I	A (С
MOTA	1035	CD2				25.738	63.460	-2.224	1.00 87.17	P	A (С
ATOM	1036	CE2				24.967	63.451	-3.386	1.00 88.32	I	A (С
ATOM	1037	CZ	TYR			23.584	63.406	-3.292	1.00 88.59	P	A (С
ATOM	1038	OH	TYR			22.824	63.395	-4.442	1.00 89.13	I	A (0
ATOM	1039	С	TYR			26.408	64.318	2.593	1.00 82.51	I	A. (С
MOTA	1040	0	TYR			27.131	65.152	3.140	1.00 83.10	7	A (0
ATOM	1041	N	PRO			26.124	63.135	3.179	1.00 80.88	I	1 4	N
ATOM	1042	CD	PRO			25.363	61.968	2.701	1.00 80.41	P		С
MOTA	1043	CA	PRO			26.706	62.854	4.494	1.00 79.17	P	4 (С
ATOM	1044	CB	PRO			26.231	61.430	4.782	1.00 79.81	F		С
ATOM	1045	CG	PRO			26.055	60.843	3.412	1.00 79.89	P	, (C
ATOM	1046	C	PRO			28.228	62.977	4.511	1.00 77.85	P	. (С
MOTA	1047	0	PRO			28.848	62.927	5.573	1.00 77.81	F	4 (0
ATOM	1048	N	VAL			28.821	63.131	3.327	1.00 76.00	P	1 1	N
ATOM	1049	CA	VAL			30.265	63.283	3.191	1.00 73.69	P		C
ATOM	1050	CB	VAL			30.633	63.812	1.795	1.00 73.84	P		C
ATOM	1051		VAL			32.136	63.757	1.598	1.00 73.41	P		C
MOTA MOTA	1052 1053	CG2	VAL			29.899	63.012	0.725	1.00 73.98	P		C
MOTA		C	VAL			30.704	64.307	4.228	1.00 72.09	P		C
MOTA	1054 1055	0	VAL			31.697	64.119	4.932	1.00 71.58	A		
ATOM	1055	N	LEU			29.938	65.391	4.306	1.00 70.52	A		
MOTA	1057	CA				30.183	66.468	5.253	1.00 69.06	A		C
ATOM	1057	CB CG	LEU			30.832	67.673	4.564	1.00 69.73	A		
ATOM	1059		LEU			32.324	67.633	4.231	1.00 69.77	A		2
ATOM	1060		LEU			32.769	69.021	3.805	1.00 70.00	A		
ATOM	1061	C	LEU			33.121	67.193	5.449	1.00 70.04	A		
ATOM	1062	Õ	LEU			28.877 28.292	66.919	5.893 5.480	1.00 67.76	A		
ATOM	1063	N	LYS			28.415	67.923		1.00 67.47	A		
ATOM	1064	CA	LYS			27.189	66.173 66.531	6.892 7.595	1.00 66.11	A		
MOTA	1065	СВ	LYS			26.877	65.504		1.00 64.75	A		
ATOM	1066	CG	LYS			28.049	65.198	8.690 9.619	1.00 65.15 1.00 66.31	A		
MOTA	1067	CD	LYS			27.590	64.575	10.936	1.00 66.31	A		
MOTA	1068	CE	LYS			26.822	65.586	11.780	1.00 66.27	A A		
MOTA	1069	NZ	LYS			26.395	65.033	13.095	1.00 67.09	A		
MOTA	1070	C	LYS			27.379	67.923	8.211	1.00 67.03	A		
MOTA	1071	0	LYS			28.442	68.531	8.064	1.00 63.11	A		
MOTA	1072	N	GLU			26.361	68.419	8.905	1.00 60.13	A		
MOTA	1073	CA	GLU			26.408	69.747	9.523	1.00 57.81	A		
ATOM	1074	CB	GLU			27.769	70.007	10.175	1.00 57.81	A		
ATOM	1075	CG	GLU			28.045	69.086	11.342	1.00 58.21	A		
MOTA	1076	CD	GLU			29.366	68.369	11.215	1.00 58.83	A		
ATOM	1077	OE1	GLU			29.864	68.255	10.076	1.00 57.73	A		
MOTA	1078		GLU			29.893	67.907	12.253	1.00 59.38	A		
						-			2.22 22.00	•	_	-

MOTA	1079	С	GLU	Α	142	26.106	70.808	8.473	1.00 55.75	Α	С
ATOM	1080	0	GLU	Α	142	26.746	70.866	7.423	1.00 54.18	Α	0
MOTA	1081	N	ASP	Α	143	25.114	71.638	8.775	1.00 53.91	Α	N
MOTA	1082	CA	ASP	Α	143	24.653	72.677	7.865	1.00 52.94	A	С
MOTA	1083	CB	ASP	Α	143	23.528	73.485	8.524	1.00 52.78	A	C
ATOM	1084	CG	ASP	Α	143	22.333	72.628	8.887	1.00 53.04	Ά	C
ATOM	1085	OD1	ASP	Α	143	21.937	71.778	8.059	1.00 53.99	A	0
MOTA	1086	OD2	ASP	Α	143	21.784	72.806	9.993	1.00 52.28	A	0
MOTA	1087	С	ASP	А	143	25.724	73.630	7.363	1.00 51.61	Α	С
ATOM	1088	0	ASP	А	143	25.838	73.880	6.163	1.00 50.60	A	0
ATOM	1089	N	THR	Α	144	26.518	74.153	8.282	1.00 50.01	Α	N
ATOM	1090	CA	THR	Α	144	27.535	75.104	7.902	1.00 49.25	Α	С
MOTA	1091	CB	THR	Α	144	27.365	76.414	8.700	1.00 48.81	Α	С
MOTA	1092	OG1	THR	Α	144	27.611	76.162	10.086	1.00 47.79	Α	0
MOTA	1093	CG2	THR	Α	144	25.949	76.952	8.544	1.00 47.87	Α	С
MOTA	1094	С	THR	Α	144	28.963	74.614	8.082	1.00 49.20	Α	С
ATOM	1095	0	THR	Α	144	29.229	73.675	8.836	1.00 49.09	Α	0
MOTA	1096	N	PRO	Α	145	29.903	75.246	7.364	1.00 48.73	Α	N
ATOM	1097	CD	PRO	Α	145	29.642	76.241	6.306	1.00 48.24	Α	C
MOTA	1098	CA	PRO	Α	145	31.326	74.912	7.425	1.00 47.89	A	С
MOTA	1099	CB	PRO	Α	145	31.942	75.861	6.398	1.00 48.43	Α	С
ATOM	1100	CG			145	30.831	76.068	5.412	1.00 48.71	Α	С
ATOM	1101	С	PRO	Α	145	31.839	75.192	8.842	1.00 47.06	A	С
MOTA	1102	0	PRO	Α	145	32.661	74.449	9.377	1.00 45.52	A	0
ATOM	1103	N	ARG	A	146	31.335	76.276	9.435	1.00 47.01	Α	N
ATOM	1104	CA	ARG			31.711	76.690	10.784	1.00 47.03	A	С
MOTA	1105	CB	ARG			31.019	78.010	11.138	1.00 49.27	A	С
ATOM	1106	CG	ARG	А	146	31.333	78.544	12.542	1.00 52.69	Α	С
ATOM	1107	CD	ARG			32.833	78.533	12.827	1.00 55.48	A	С
MOTA	1108	NE			146	33.352	79.819	13.292	1.00 58.15	A	N
ATOM	1109	CZ			146	33.396	80.926	12.553	1.00 59.62	Α	С
ATOM	1110		ARG			32.946	80.918	11.304	1.00 59.96	Α	N
ATOM	1111		ARG			33.904	82.041	13.059	1.00 60.26	A	N
ATOM	1112	С			146	31.359	75.621	11.816	1.00 46.21	A	С
ATOM	1113	0	ARG			32.094	75.402	12.777	1.00 44.88	Α	0
ATOM	1114	N			147	30.233	74.952	11.603	1.00 45.24	Α	N
MOTA	1115	CA	GLN	Α	147	29.785	73.901	12.500	1.00 44.85	Α	C
ATOM	1116	CB	GLN	Α	147	28.309	73.626	12.253	1.00 45.45	A	С
MOTA	1117	CG	GLN	Α	147	27.429	74.739	12.735	1.00 45.63	Α	С
MOTA	1118	CD	GLN	A	147	26.006	74.593	12.283	1.00 45.83	Α	C
MOTA	1119	OE1	GLN	Α	147	25.112	75.238	12.825	1.00 48.58	A	0
MOTA	1120	NE2	GLN	Α	147	25.780	73.758	11.279	1.00 45.70	Α	N
MOTA	1121	С	GLN	Α	147	30.586	72.618	12.317	1.00 44.97	Α	C
ATOM	1122	0	GLN	Α	147	30.802	71.869	13.266	1.00 45.60	Α	0
ATOM	1123	N	HIS	Α	148	31.012	72.362	11.087	1.00 44.39	A	N
MOTA	1124	CA	HIS	Α	148	31.791	71.173	10.785	1.00 43.33	A	C
MOTA	1125	CB	HIS	Α	148	31.804	70.929	9.275	1.00 43.65	A	C
MOTA	1126	CG	HIS	Α	148	32.691	69.801	8.858	1.00 43.80	A	С
MOTA	1127	CD2	HIS	Α	148	32.430	68.486	8.669	1.00 43.53	A	С
MOTA	1128	ND1	HIS	A	148	34.043	69.957	8.650	1.00 44.18	A	N
MOTA	1129	CEl	HIS	Α	148	34.578	68.787	8.353	1.00 43.39	A	С
MOTA	1130	NE2	HIS	Α	148	33.620	67.878	8.359	1.00 43.23	A	N
MOTA	1131	С	HIS	Α	148	33.213	71.343	11.309	1.00 42.68	Α	С
MOTA	1132	0	HIS	Α	148	33.794	70.424	11.864	1.00 43.42	A	0
MOTA	1133	N	VAL	A	149	33.762	72.535	11.131	1.00 42.36	Α	N
MOTA	1134	CA	VAL	A	149	35.106	72.850	11.589	1.00 41.50	Α	С
MOTA	1135	CB	VAL	Α	149	35.508	74.267	11.127	1.00 40.10	A	C
MOTA	1136	CG1	VAL	Α	149	36.759	74.741	11.851	1.00 39.83	A	C
ATOM	1137		VAL	Α	149	35.757	74.246	9.634	1.00 40.00	A	С
ATOM	1138	C	VAL	Α	149	35.235	72.737	13.110	1.00 41.59	Α	С
MOTA	1139	0	VAL	A	149	36.246	72.252	13.619	1.00 40.50	A	0
MOTA	1140	N	ASP	A	150	34.211	73.183	13.831	1.00 42.21	Α	N

MOTA	1141	CA	ASP	Α	150	34.235	73.099	15.281	1.00 43.19	7	A C
MOTA	1142	CB			150	33.087	73.902	15.887	1.00 43.80	I	
MOTA	1143	CG			150	33.340	75.404	15.837	1.00 45.02	I	A C
MOTA	1144		ASP			34.463	75.842	16.182	1.00 43.90	P	<i>A</i> 0
MOTA	1145		ASP			32.413	76.148	15.461	1.00 46.14	I	
MOTA	1146	C	ASP	Α	150	34.167	71.649	15.734	1.00 42.77	I	r C
MOTA	1147	0	ASP	Α	150	34.854	71.258	16.672	1.00 42.20	P	A 0
MOTA	1148	N	VAL	Α	151	33.344	70.855	15.053	1.00 43.57	I	N A
MOTA	1149	CA	VAL	A	151	33.202	69.433	15.361	1.00 43.19	Į	Y C
MOTA	1150	CB	VAL	Α	151	31.994	68.811	14.617	1.00 43.65	I	
MOTA	1151	CG1				31.945	67.304	14.861	1.00 42.02	I	
MOTA	1152	CG2	VAL			30.703	69.469	15.084	1.00 43.03	Į	A C
MOTA	1153	С	VAL	Α	151	34.469	68.684	14.950	1.00 43.31	I	y C
MOTA	1154	0	VAL	Α	151	34.840	67.682	15.559	1.00 43.08	I	<i>t</i> 0
MOTA	1155	N	PHÉ	Α	152	35.130	69.174	13.909	1.00 43.19	1	N A
MOTA	1156	CA	PHE	Α	152	36.363	68.556	13.437	1.00 44.74	I	
MOTA	1157	CB			152	36.761	69.147	12.082	1.00 46.84	I	A C
MOTA	1158	CG	PHE	Α	152	38.105	68.684	11.577	1.00 49.66	1	A C
MOTA	1159	CD1	PHE	А	152	39.288	69.248	12.068	1.00 50.96	7	A C
MOTA	1160		PHE			38.191	67.691	10.599	1.00 50.62	7	A C
MOTA	1161	CE1	PHE			40.538	68.832	11.593	1.00 51.74	7	A C
MOTA	1162	CE2	PHE	Α	152	39.434	67.267	10.115	1.00 51.81	1	A C
MOTA	1163	CZ			152	40.611	67.840	10.614	1.00 51.94	1	A C
MOTA	1164	С			152	37.486	68.766	14.448	1.00 44.12	1	A C
MOTA	1165	0			152	38.164	67.815	14.833	1.00 42.85	I	<i>A</i> 0
MOTA	1166	N	PHE			37.672	70.015	14.867	1.00 44.11	1	A N
MOTA	1167	CA	PHE			38.705	70.372	15.829	1.00 45.96		A C
MOTA	1168	CB			153	38.756	71.889	15.997	1.00 46.09		A C
MOTA	1169	CG	PHE			39.975	72.518	15.398	1.00 46.77	1	A C
MOTA	1170	CD1				40.206	72.451	14.028	1.00 46.70		A C
ATOM	1171	CD2	PHE			40.907	73.159	16.206	1.00 47.06		A C
MOTA	1172		PHE			41.349	73.010	13.469	1.00 47.18		A C
ATOM	1173	CE2				42.056	73.723	15.659	1.00 47.73		A C
MOTA	1174	CZ	PHE			42.278	73.648	14.284	1.00 47.61		A C
ATOM	1175	C	PHE			38.514	69.721	17.196	1.00 47.19		A C
ATOM	1176	0	PHE			39.471	69.267	17.822	1.00 46.37		A 0
ATOM	1177	N	GLN			37.275	69.691	17.662	1.00 48.95		N A
ATOM	1178	CA	GLN			36.965	69.094	18.952	1.00 50.56		A C
ATOM	1179	CB	GLN			35.446	69.059	19.160	1.00 53.43		A C
MOTA	1180	CG	GLN			35.001	68.708	20.572	1.00 57.87		A C
ATOM	1181	CD	GLN			34.774	69.944	21.432	1.00 61.36		A C
ATOM	1182 1183			_		33.876	70.751	21.155	1.00 63.41		4 0
MOTA MOTA	1184	C	GLN			35.588	70.102	22.477	1.00 62.26		A N
MOTA	1185	0	GLN GLN			37.517	67.673	18.979	1.00 49.87		A C
MOTA	1186	И	LYS			38.197 37.225	67.273	19.921	1.00 50.62 1.00 48.85		0 4
ATOM	1187	CA	LYS			37.656	66.924 65.540	17.924 17.794			F C
MOTA	1188	CB	LYS			36.914	64.869		1.00 48.81 1.00 49.50		7 C
ATOM	1189	CG	LYS			35.411	64.809	16.639	1.00 49.30		4 C
MOTA	1190	CD	LYS			34.801	64.065	16.782 15.595	1.00 53.85		4 C
MOTA	1191	CE	LYS			33.292	63.934	15.726	1.00 53.85		A C
ATOM	1192	NZ	LYS			32.707	63.252	14.540	1.00 54.00		A N
ATOM	1193	C	LYS			39.149	65.345	17.556	1.00 47.98		A C
ATOM	1194	ō	LYS			39.749	64.392	18.051	1.00 47.90		A O
ATOM	1195	N	MET			39.753	66.248	16.798	1.00 47.30		N A
ATOM	1196	CA	MET			41.154	66.106	16.738	1.00 45.05		A C
ATOM	1197	CB	MET			41.351	66.538	15.009	1.00 45.05		A C
ATOM	1198	CG	MET			42.391	65.722	14.280	1.00 48.74		A C
MOTA	1199	SD	MET			42.308	65.901	12.505	1.00 49.26		A S
ATOM	1200	CE	MET			41.128	64.625	12.121	1.00 49.14		A C
ATOM	1201	C	MET			42.165	66.797	17.378	1.00 43.50		A C
ATOM	1202	Ō	MET			43.254	66.273	17.592	1.00 43.69		A 0
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ATOM	1203	N	ASP	A 157	41.821	67.959	17.922	1.00	41.94		А	N
MOTA	1204	CA	ASP	A 157	42.737				40.01		A	C
MOTA	1205	CB	ASP .	A 157	42.364		18.847		38.20		A	C
MOTA	1206	CG	ASP .	A 157	43.263		19.766		38.30		A	C
MOTA	1207	OD1	ASP .	A 157	44.371		20.089		36.78		A	
MOTA	1208	OD2	ASP .	A 157	42.864	72.078	20.160		37.41		A	0
ATOM	1209			A 157	42.723	68.071	20.219		39.65			0
ATOM	1210			A 157	42.168	68.640	21.157		38.73		A	C
MOTA	1211			A 158	43.362	66.914	20.354		40.03		A	0
MOTA	1212			A 158	43.401	66.177	21.613		40.61		A	N
MOTA	1213			A 158	44.191	64.882	21.420				A	C
ATOM	1214			A 158	43.442	63.874			42.38		A	C
ATOM	1215			A 158	42.034	63.631	20.555		46.63		A	С
ATOM	1216			A 158	41.212		21.119		48.63		A	С
ATOM	1217			1 158		62.701	20.244		50.11		Α	С
ATOM	1218			158	39.856	62.474	20.828		50.52		A	N
ATOM	1219			158	43.859	66.865	22.893		40.07		A	C
ATOM	1220			150	43.289	66.598	23.955		40.83		A ·	0
ATOM	1221				44.875	67.724	22.823		38.04		A	N
ATOM	1222			159	45.340	68.404	24.028		37.44		Α	C
ATOM	1223			159	46.864	68.569	24.007		36.22		Α	С
ATOM	1224			159	47.321	69.573	22.992		34.14		Α	С
ATOM				159	46.644	69.806	21.995		35.12		A	0
	1225			159	48.479	70.173	23.229	1.00	32.99		A	N
ATOM	1226			159	44.653	69.759	24.182	1.00	37.44		A	С
MOTA	1227			159	44.962	70.533	25.093	1.00	37.12		A	0
ATOM	1228			160	43.716	70.025	23.274	1.00	36.78		Α	N
ATOM	1229			160	42.916	71.244	23.270	1.00	36.59		A	С
ATOM	1230			160	41.890	71.200	24.406		37.78		Α	С
ATOM	1231		LYS A		40.960	70.003	24.366		38.61		A	Ċ
ATOM	1232		LYS A	160	40.031	69.993	25.571		39.53		A	Ċ
MOTA	1233		LYS A		39.213	68.705	25.622		40.72		A	c
ATOM	1234		LYS A		38.230	68.708	26.746		42.05		A	N
MOTA	1235		LYS A		43.670	72.555	23.360		36.33		A.	C
MOTA	1236	0 1	LYS A	160	43.294	73.427	24.147		36.16		A	0
MOTA	1237		ASP A		44.722	72.709	22.565		35.17		A	N
MOTA	1238	CA A	ASP A	161	45.470	73.955	22.572		35.20		A	C
MOTA	1239	CB A	ASP A	161	46.981	73.688	22.598		36.07		A	C
MOTA	1240	CG A	ASP A	161	47.463	72.936	21.380		36.91		A	C
MOTA	1241	OD1 A	ASP A	161	48.688	72.735	21.251		37.63		A.	0
MOTA	1242	OD2 A	ASP A	161	46.619	72.540	20.553		36.46			
ATOM	1243		SP A		45.091	74.767	21.333		34.98		A.	0
MOTA	1244		SP A		45.810	75.684	20.927		35.51		A.	C
ATOM	1245		LY A		43.950	74.418	20.743		34.35		A.	0
MOTA	1246		LY A		43.459	75.108	19.560		33.35		A. A	И
MOTA	1247		LY A		44.262	74.866	18.296		33.71			C
MOTA	1248		LY A		44.027	75.505	17.270		33.71		A.	C
MOTA	1249		LE A		45.202	73.931	18.363		32.45		A.	0
MOTA	1250		LE A		46.060	73.623	17.230				A.	И
MOTA	1251		LE A		47.522	74.053	17.230		30.95			C
MOTA	1252	CG2 I			48.507	73.281			32.91		A.	C
MOTA	1253	CG1 I			47.681	75.548			34.23		Ą	C
ATOM	1254	CD1 I			47.399	75.965	17.307		34.64		Ą	С
MOTA	1255		LE A		46.038		15.888		37.80		Ą	С
MOTA	1256		LE A		45.961	72.131	16.929		29.89		A	C
MOTA	1257		AL A		46.102	71.317	17.851		29.72		7	0
ATOM	1258		AL A		46.102	71.775	15.643		27.08		A.	N
MOTA	1259		AL A		45.012	70.371	15.239		23.63		4	C
ATOM	1260	CG1 V				70.019	14.222		23.91		7	С
ATOM	1261	CG2 V			45.162	68.558	13.769		21.79	7		С
ATOM	1262		AL A		43.628	70.255	14.840		22.48	I		C
ATOM	1263		AL A		47.469	70.126	14.587		24.01	Į		C
ATOM	1264		HR A		47.796	70.723	13.566		24.35	F		0
	03	44 11	А	102	48.259	69.255	15.194	1.00	25.14	F		N

ATOM	1265	CA	THR	А	165	49.580	68.930	14.672	1.00 25.83	Α	C
MOTA	1266	CB	THR	Α	165	50.545	68.555	15.808	1.00 26.84	Α	C
ATOM	1267	OG1	THR	Α	165	49.984	67.484	16.579	1.00 27.40	Α	0
ATOM	1268	CG2	THR	Α	165	50.777	69.758	16.719	1.00 27.91	Α	С
MOTA	1269	C	THR	Α	165	49.471	67.757	13.720	1.00 26.36	Α	C
MOTA	1270	0	THR	Α	165	48.421	67.132	13.607	1.00 26.92	Α	0
MOTA	1271	N	LEU	A	166	50.557	67.451	13.034	1.00 26.44	Α	N
MOTA	1272	CA	LEU	Α	166	50.516	66.339	12.109	1.00 27.49	A	С
MOTA	1273	CB	LEU	Α	166	51.872	66.169	11.418	1.00 26.47	Α	C
ATOM	1274	CG	LEU	Α	166	51.966	64.916	10.540	1.00 27.12	Α	С
ATOM	1275	CD1	LEU	Α	166	50.878	64.952	9.462	1.00 27.17	A	C
MOTA	1276	CD2	LEU	Α	166	53.340	64.831	9.908	1.00 26.43	Α	C
ATOM	1277	С	LEU	Α	166	50.134	65.057	12.848	1.00 28.32	Α	С
ATOM	1278	0	LEU	Α	166	49.288	64.288	12.380	1.00 29.24	Α	0
MOTA	1279	N	ASP	Α	167	50.749	64.843	14.009	1.00 29.23	A	N
MOTA	1280	CA	ASP	Α	167	50.496	63.646	14.803	1.00 29.63	Α	С
ATOM	1281	CB	ASP	Α	167	51.476	63.572	15.981	1.00 29.60	A	C
MOTA	1282	CG	ASP	Α	167	51.463	62.221	16.652	1.00 31.26	Α	С
MOTA	1283	OD1	ASP	Α	167	51.700	61.208	15.960	1.00 31.68	Α	0
ATOM	1284	OD2	ASP	Α	167	51.211	62.160	17.874	1.00 35.28	Α	0
MOTA	1285	С	ASP	Α	167	49.054	63.526	15.298	1.00 29.74	A	С
ATOM	1286	0	ASP	Α	167	48.488	62.429	15.286	1.00 30.13	Α	0
ATOM	1287	N	GLU	Α	168	48.455	64.634	15.732	1.00 29.47	A	N
MOTA	1288	CA	GLU	Α	168	47.063	64.585	16.181	1.00 29.58	Α	С
MOTA	1289	CB	GLU	Α	168	46.613	65.944	16.742	1.00 29.37	Α	С
MOTA	1290	CG	GLU	A	168	47.284	66.342	18.041	1.00 29.13	Α	С
MOTA	1291	CD	GLU	Α	168	46.924	67.753	18.464	1.00 30.23	Α	С
ATOM	1292	OE1	GLU	Α	168	47.056	68.665	17.622	1.00 29.91	Α	0
MOTA	1293	OE2	GLU	Α	168	46.520	67.955	19.632	1.00 28.29	Α	0
MOTA	1294	С	GLU	Α	168	46.195	64.221	14.972	1.00 29.62	Α	С
MOTA	1295	0	GLU	Α	168	45.224	63.471	15.083	1.00 30.31	A	0
MOTA	1296	N	PHE	A	169	46.573	64.766	13.821	1.00 28.73	Α	N
MOTA	1297	CA	PHE	Α	169	45.883	64.536	12.562	1.00 29.03	Α	C
MOTA	1298	CB	PHE	Α	169	46.544	65.391	11.475	1.00 28.61	A	С
MOTA	1299	CG	PHE	Α	169	45.826	65.380	10.156	1.00 29.48	Α	C
MOTA	1300		PHE			44.722	66.196	9.942	1.00 29.24	Α	С
MOTA	1301	CD2	PHE	Α	169	46.288	64.589	9.103	1.00 29.78	Α	С
MOTA	1302	CE1	PHE	Α	169	44.092	66.234	8.700	1.00 29.19	Α	С
MOTA	1303	CE2	PHE	A	169	45.663	64.623	7.858	1.00 29.71	A	С
ATOM	1304	CZ	PHE	A	169	44.566	65.448	7.656	1.00 28.72	A	С
MOTA	1305	C	PHE	A	169	45.926	63.056	12.159	1.00 29.06	A	С
MOTA	1306	0			169	44.912	62.470	11.788	1.00 28.34	A	0
MOTA	1307	N	LEU	A	170	47.106	62.456	12.229	1.00 30.37	A	N
MOTA	1308	CA			170	47.249	61.058	11.850	1.00 33.08	A	С
MOTA	1309	CB			170	48.732	60.670	11.779	1.00 32.64	A	C
MOTA	1310	CG			170	49.545	61.554	10.824	1.00 33.54	A	C
MOTA	1311		LEU			51.007	61.178	10.851	1.00 32.82	A	C
ATOM	1312		LEU			48.994	61.403	9.422	1.00 34.35	A	C
MOTA	1313	С			170	46.505	60.147	12.809	1.00 34.05	A	C
MOTA	1314	0			170	45.784	59.260	12.372	1.00 35.06	A	0
MOTA	1315	N			171	46.665	60.367	14.111	1.00 36.11	A	И
MOTA	1316	CA			171	45.982	59.536	15.103	1.00 38.27	A	C
ATOM	1317	CB			171	46.335	59.974	16.535	1.00 40.05	A	C
MOTA	1318	CG			171	47.730	59.545	17.023	1.00 44.06	A A	C
ATOM	1319	CD			171	47.850	58.038	17.275	1.00 46.86	A A	0
ATOM	1320		GLU			47.054	57.492	18.071	1.00 48.91	A A	0
ATOM .	1321		GLU			48.744	57.395	16.685	1.00 48.43	A A	C
MOTA	1322	C			171	44.473	59.589	14.910	1.00 38.75	A A	0
MOTA	1323	O			171	43.816	58.548	14.864	1.00 39.84	A A	
ATOM	1324	N			172	43.925	60.795	14.789	1.00 37.46	A A	N C
ATOM	1325	CA			172	42.487	60.951	14.596	1.00 38.79 1.00 37.16	A	c
MOTA	1326	CB	SER	A	172	42.118	62.445	14.526	1.00 3/.10	A	C

MOTA	1327	OG	SER	Α	172	43.090	63.484	14.406	1.00	20.00	A	0
MOTA	1328	C	SER	Α	172	42.005	60.167	13.370	1.00	39.50	A	С
ATOM	1329	0	SER	Α	172	41.008	59.442	13.434	1.00	38.24	Α	0
ATOM	1330	N	CYS			42.723	60.313	12.259	1.00	40.64	A	N
ATOM	1331	CA	CYS			42.369	59.622	11.026	1.00	42.91	A	С
ATOM	1332	СВ	CYS			43.250	60.093	9.869		42.58	A	C
ATOM	1333	SG	CYS			42.927	61.761	9.287		42.65	A	s
ATOM	1334	C	CYS			42.513	58.117	11.172		44.54	A	C
ATOM	1335	0	CYS			41.707	57.351	10.647		44.61	A	o
						43.547	57.698	11.890		46.28		
ATOM	1336	N	GLN								A	N
MOTA	1337	CA	GLN			43.804	56.282	12.088		48.25	A	С
ATOM	1338	CB	GLN			45.208	56.073	12.685		48.32	A	C
MOTA	1339	CG	GLN			45.113	55.086	13.848		20.00	A	C
MOTA	1340	CD	GLN			46.606	54.851	13.853		20.00	A	C
MOTA	1341	OE1	GLN			47.601	55.296	13.306		20.00	A	0
MOTA	1342	NE2				46.652	54.076	14.955	1.00	20.00	A	И
ATOM	1343	С	GLN	A	174	42.719	55.640	12.931	1.00	49.52	A	С
MOTA	1344	0	GLN	Α	174	42.358	54.485	12.717	1.00	50.06	A	0
ATOM	1345	N	GLU	Α	175	42.193	56.401	13.883	1.00	51.40	A	N
MOTA	1346	CA	GLU	Α	175	41.169	55.902	14.790	1.00	52.27	A	C
MOTA	1347	CB	GLU	Α	175	41.441	56.457	16.200	1.00	52.00	A	С
MOTA	1348	ÇG	GLU	Α	175	40.643	57.656	16.714	1.00	20.00	Α	C
MOTA	1349	CD	GLU	Α	175	41.544	57.841	17.913	1.00	20.00	A	С
MOTA	1350	OE2	GLU			41.487	58.618	18.856	1.00	20.00	A	0
ATOM	1351	OE1				42.338	56.903	17.864		20.00	A	0
ATOM	1352	C	GLU			39.741	56,202	14.348		53.25	A	Č
ATOM	1353	ō	GLU			38.795	55.898	15.074		53.15	A	ō
ATOM	1354	N	ASP			39.580	56.789	13.163		54.64	A	N
ATOM	1355	CA	ASP			38.250	57.134	12.661		55.50	A	C
MOTA	1356	CB	ASP				58.516	13.179		55.76	A	C
ATOM						37.842						C
	1357	CG	ASP			36.371	58.830	12.931		57.00	A	
MOTA	1358		ASP			35.834	58.437	11.871		56.51	A	0
MOTA	1359		ASP			35.751	59.485	13.797		57.06	A	0
ATOM	1360	C	ASP			38.192	57.143	11.137		56.15	A	С
ATOM	1361	0	ASP			38.694	58.066	10.499		56.54	A	0
ATOM	1362	N	ASP			37.563	56.128	10.557		56.88	A	N
MOTA	1363	CA	ASP			37.439	56.031	9.105		57.63	A	С
MOTA	1364	CB	ASP	Α	177	36.847	54.665	8.712	1.00	57.64	A	С
MOTA	1365	CG	ASP			37.324	54.782	7.272		20.00	A	C
MOTA	1366		ASP			36.258	54.892	6.664	1.00	20.00	A	0
MOTA	1367	OD1	ASP	А	177	38.400	54.571	6.720	1.00	20.00	A	0
MOTA	1368	C	ASP			36.635	57.197	8.534		58.49	A	С
MOTA	1369	0	ASP	Α	177	36.804	57.572	7.371	1.00	58.63	A	0
MOTA	1370	N	ASN	Α	178	35.762	57.767	9.360	1.00	59.22	Α	N
MOTA	1371	CA	ASN	A	178	34.914	58.881	8.945	1.00	60.04	A	C
ATOM	1372	CB	ASN	Α	178	33.803	59.105	9.978	1.00	61.69	Α	C
MOTA	1373	CG	ASN			32.946	57.867	10.193	1.00	63.45	A	С
MOTA	1374	OD1	ASN			32.309	57.375	9.263	1.00	64.62	A	0
ATOM	1375		ASN			32.929	57.357	11.427		64.05	Α	N
MOTA	1376	C	ASN			35.688	60.182	8.735		59.46	A	С
ATOM	1377	ō	ASN			35.498	60.870	7.732		58.93	A	ō
ATOM	1378	N			179	36.551	60.515	9.689		58.89	A	N
ATOM	1379	CA			179	37.349	61.732	9.606		58.64	A	C
MOTA	1380	СВ			179	38.152	61.950	10.902		58.55	A	C
ATOM	1381		ILE			39.236	63.044	10.302		20.00	A	C
ATOM	1382		ILE			36.945				20.00	A	C
ATOM	1383		ILE				62.491	11.671		20.00	A	C
						37.688	63.035	12.892				
ATOM	1384	C			179	38.228	61.696	8.365		58.24	A	C
ATOM	1385	0			179	38.335	62.679	7.632		58.22	A	0
ATOM	1386	N			180	38.846	60.547	8.128		57.78	A	И
ATOM	1387	CA			180	39.726	60.378	6.984		57.77	A	C
ATOM	1388	CB	MET	A	180	40.242	58.938	6.949	1.00	58.13	A	С

ATOM	-			58.756	6.172	1.00 58.02	А	С
ATOM		200		57.098			A	S
ATOM							A	C
ATOM				60.736	5.664		A	C
MOTA				61.566	4.910		A	0
MOTA				60.119		1.00 57.90	A	И
MOTA				60.362		1.00 57.76	A	C
ATOM				59.564	4.277		A	C
ATOM	_		36.060	58.047		1.00 20.00	A	C
ATOM	1398		34.761	57.252	4.412	1.00 20.00	A	C
ATOM	1399		35.028	55.812	4.365	1.00 20.00	A	N
MOTA	1400		33.976	54.984	4.508	1.00 20.00	A	C
MOTA	1401		34.151	53.675	4.475	1.00 20.00	A	И
ATOM	1402		32.754	55.494	4.688	1.00 20.00	A	N
MOTA	1403		36.798	61.841	3.939	1.00 58.17	A	C
ATOM	1404		37.050	62.380	2.861	1.00 58.63	A	ō
MOTA	1405		36.230	62.493	4.948	1.00 58.30	A	N
ATOM	1406		35.876	63.906	4.848	1.00 58.08	A	C
ATOM	1407		35.313	64.394	6.181	1.00 59.02	A	C
ATOM	1408		36.275	64.256	7.213	1.00 60.12	A	Ö
ATOM	1409		37.078	64.767	4.460	1.00 57.32	A	Ċ
MOTA	1410	O SER A 182	36.921	65.917	4.047	1.00 56.37	A	ō
ATOM	1411	N LEU A 183	38.274	64.203	4.602	1.00 56.97	A	N
ATOM	1412	CA LEU A 183	39.507	64.900	4.270	1.00 56.87	A	C
ATOM	1413	CB LEU A 183	40.567	64.613	5.333	1.00 56.46	A	Č
ATOM	1414	CG LEU A 183	40.381	65.258	6.711	1.00 56.97	A	C
ATOM	1415	CD1 LEU A 183	41.256	64.552	7.739	1.00 56.83	A	Ċ
ATOM	1416	CD2 LEU A 183	40.716	66.744	6.636	1.00 56.63	A	C
MOTA	1417	C LEU A 183	40.035	64.479	2.903	1.00 57.62	A	C
MOTA	1418	O LEU A 183	40.277	65.319	2.036	1.00 58.08	A	0
ATOM	1419	N GLN A 184	40.193	63.171	2.720	1.00 58.43	A	N
ATOM ATOM	1420	CA GLN A 184	40.722	62.585	1.488	1.00 59.44	А	C
ATOM	1421	CB GLN A 184	41.159	61.142	1.754	1.00 60.57	A	С
ATOM	1422	CG GLN A 184	42.390	60.992	2.626	1.00 62.17	A	С
ATOM	1423	CD GLN A 184	43.607	61.676	2.036	1.00 63.75	A	С
ATOM	1424 1425	OE1 GLN A 184	43.822	61.653	0.820	1.00 65.40	A	0
ATOM	1425	NE2 GLN A 184	44.421	62.275	2.895	1.00 64.41	Α	N
ATOM	1426	C GLN A 184	39.823	62.585	0.251	1.00 59.40	Α	C
ATOM	1427	O GLN A 184 N LEU A 185	40.294	62.834	-0.859	1.00 59.49	Α	0
ATOM	1429		38.546	62.274	0.446	1.00 59.28	A	N
MOTA	1430	CA LEU A 185 CB LEU A 185	37.563	62.204	-0.635	1.00 58.52	A	С
ATOM	1431	CG LEU A 185	36.188	62.622	-0.097	1.00 59.83	A	С
ATOM	1432	CD1 LEU A 185	34.908	62.476	-0.939	1.00 60.99	A	С
ATOM	1433	CD2 LEU A 185	35.010	63.279	-2.227	1.00 61.25	A	С
MOTA	1434	C LEU A 185	34.663	61.006	-1.242	1.00 61.89	A	С
ATOM	1435	O LEU A 185	37.912	63.052	-1.858	1.00 58.00	A	С
ATOM	1436	N PHE A 186	37.985	62.550	-2.980	1.00 57.77	A	0
ATOM	1437	CA PHE A 186	38.140	64.339	-1.622	1.00 57.93	Α.	N
ATOM	1438	CB PHE A 186	38.441	65.308	-2.678	1.00 56.27	A	C
ATOM	1439	CG PHE A 186	38.290	66.703	-2.077	1.00 56.40	A	C
ATOM	1440	CD1 PHE A 186	37.091 35.809	66.827	-1.179	1.00 56.93	Α	С
ATOM	1441	CD2 PHE A 186		66.902	-1.713	1.00 57.22	Α	С
MOTA	1442	CE1 PHE A 186	37.238 34.685	66.797	0.206	1.00 56.83	A	С
ATOM	1443	CE2 PHE A 186	36.128	66.942	-0.877	1.00 57.80	A	C
ATOM	1444	CZ PHE A 186	34.849	66.836 66.908	1.044	1.00 56.85	A	C
ATOM	1445	C PHE A 186	39.792		0.503	1.00 57.09	A	C
ATOM	1446	O PHE A 186	39.964	65.144	-3.391	1.00 55.61	A	C
ATOM	1447	N GLN A 187	40.747	65.600	-4.524	1.00 54.18	A	0
ATOM	1448	CA GLN A 187	42.049	64.501 64.256	-2.729	1.00 55.87	A	N
MOTA	1449	CB GLN A 187	43.121		-3.344	1.00 56.42	A	C
ATOM	1450	CG GLN A 187	43.800	63.990	-2.279	1.00 56.81	A	C
			*3.000	65.231	-1.721	1.00 56.31	Α	C

ATOM	1451	CD			187	42.824	66.220	-1.115	1.00 56.03	А	С
MOTA	1452	OE:			187	42.161	66.980	-1.829	1.00 55.49	A	0
MOTA	1453	NE2			187	42.725	66.211	0.212	1.00 54.80	Α	N
ATOM	1454	С			187	41.938	63.033	-4.251	1.00 55.55	Α	С
MOTA	1455	0			. 187	42.637	62.931	-5.264	1.00 55.99	A	0
ATOM	1456	N			. 188	41.045	62.116		1.00 55.30	Α	N
MOTA	1457	CA	ASN	Α	188	40.830	60.882	-4.624	1.00 54.90	Α	С
ATOM	1458	CB			188	40.016	59.892	-3.792	1.00 53.89	Α	С
MOTA	1459	CG			188	40.822	59.281	-2.674	1.00 53.57	A	С
MOTA	1460		. ASN			41.930	58.798	-2.896	1.00 54.14	A	0
ATOM	1461	ND2			188	40.273	59.290	-1.464	1.00 53.04	A	N
MOTA	1462	C			188	40.159	61.072		1.00 53.50	Α	С
ATOM	1463	0			188	40.575	60.470	-6.960	1.00 53.30	A	0
MOTA	1464	N			189	39.120	61.900	-6.007	1.00 54.55	Α	N
ATOM	1465	CA			189	38.392	62.167	-7.242	1.00 55.50	Α	С
ATOM	1466	CB			189	37.484	63.421	-7.089	1.00 56.77	A	С
ATOM	1467		VAL			36.810	63.754		1.00 57.31	A	С
MOTA MOTA	1468	CG2			189	36.432	63.171	-6.027	1.00 57.55	A	С
ATOM	1469	С			189	39.338	62.381	-8.431	1.00 56.01	Α	С
ATOM	1470	0			189	38.964	62.142		1.00 55.53	A	0
ATOM	1471 1472	N			190	40.562	62.817		1.00 57.18	A	N
ATOM	1472	CA CB			190 190	41.561	63.082		1.00 58.28	A	С
ATOM	1474	CG				42.592	64.074	-8.651	1.00 59.91	A	С
ATOM	1475	SD			190 190	42.029	65.350	-8.096	1.00 61.94	A	С
ATOM	1476	CE			190	43.389	66.355	-7.480	1.00 64.25	A	S
ATOM	1477	C			190	43.919	67.146	-8.984	1.00 63.18	A	C
ATOM	1478	0			190	42.310	61.838	-9.638	1.00 58.87	A	C
ATOM	1479	N			191	42.697	61.735		1.00 58.96	A	0
ATOM	1480	CA	VAL			42.540 43.264	60.908	-8.719	1.00 58.80	A.	N
ATOM	1481	CB	VAL			44.201	59.695 59.270	-9.055	1.00 58.74	A	C
ATOM	1482		VAL			45.351	60.257	-7.903	1.00 58.56	A	C
ATOM	1483	CG2				43.431	59.213	-7.802 -6.581	1.00 57.06	A	C
ATOM	1484	С	VAL			42.334	58.551	-9.430	1.00 57.52	A	C
MOTA	1485	o	VAL			42.727	57.386	-9.440	1.00 59.77 1.00 59.62	A	C
MOTA	1486	N	GLU			41.091	58.893	-9.739	1.00 59.62	A	0
MOTA	1487	CA	GLU			40.131	57.889	-10.166	1.00 62.50	A	N
MOTA	1488	CB	GLU			38.752	58.520	-10.371	1.00 63.32	A	C
MOTA	1489	CG	GLU			37.992	58.759	-9.084	1.00 64.85	A A	C
MOTA	1490	CD	GLU			37.821	57.481	-8.273	1.00 66.05	A	C
MOTA	1491	OE1				38.852	56.905	-7.846	1.00 66.39	A	0
MOTA	1492	OE2				36.659	57.053	-8.067	1.00 66.07	A	0
MOTA	1493	С	GLU			40.628		-11.482	1.00 62.93	A	Ċ
MOTA	1494	OT1	GLU	Α	192	40.770		-11.551	1.00 63.33	A	Ö
MOTA	1495	OT2	GLU	Α	192	40.875		-12.430	1.00 63.53	A	Ö
MOTA	1496	0	нон		1	35.469	75.381	-3.776	1.00 23.76	W	ō
MOTA	1497	0	нон	W	2	52.858	69.036	13.284	1.00 34.20	W	ŏ
MOTA	1498	0	HOH	W	3	34.892	78.823	-4.797	1.00 38.94	W	Ō
MOTA	1499	0	нон	W	4	37.006	67.545	7.552	1.00 29.05	W	Ö
MOTA	1500	0	нон	W	5	56.152	61.673	-4.774	1.00 34.60	W	0
MOTA	1501	0	нон		6	49.023	80.324	-12.196	1.00 28.25	W	0
MOTA	1502	0	нон		7	54.007	68.342	-6.591	1.00 29.14	W	0
MOTA	1503	0	HOH		8	50.661	68.851	-0.418	1.00 35.10	W	0
ATOM	1504	0	нон		9	53.364	62.780	1.420	1.00 32.97	W	0
ATOM	1505	0	нон		10	55.113	65.116	13.378	1.00 39.07	W	0
ATOM	1506	0	нон		11	46.387	56.775	10.105	1.00 44.06	W	0
ATOM	1507	0	НОН		12	43.495		-13.560	1.00 53.98	W	0
ATOM	1508	0	НОН		13	48.694	77.673	11.464	1.00 30.69	W	0
ATOM	1509	0	нон		14	50.926	77.563	15.031	1.00 42.21	W	0
ATOM ATOM	1510	0	НОН		15	47.658		-10.356	1.00 42.27	W	0
ATOM ATOM	1511	0	HOH		16	24.619	71.536	11.589	1.00 40.08	W	0
WI ON	1512	0	нон	W	17	53.442	66.563	14.796	1.00 38.72	W	0

MOTA	1513	0	HOH W	18	42.849	80.355	13.801	1.00 42.00	W	0
MOTA	1514	0	нон м	19	44.188		-18.301		W	ō
MOTA	1515	0	нон м	20	51.484	57.183		1.00 43.80	W	Ö
MOTA	1516	0	нон м	21	45.507	52.819	-12.257	1.00 55.22	W	Ö
ATOM	1517	0	нон w	22	25.351		-13.222	1.00 55.58	W	Ō
MOTA	1518	0	нон w	23	43.627			1.00 36.08	W	Ö
MOTA	1519	0	HOH W	24	49.633	72.784	25.609	1.00 43.42	W	Ö
MOTA	1520	0	HOH W	25	45.647	81.140	-14.597	1.00 45.43	W	ō
MOTA	1521	0	HOH W	26	29.500	72.307		1.00 44.26	W	Õ
ATOM	1522	0	нон м	27	43.197	77.892	16.089	1.00 30.66	W	ō
MOTA	1523	0	нон м	28	47.350	74.655		1.00 39.87	W	Ö
MOTA	1524	0	HOH W	29	26.554	78.008	4.961	1.00 38.44	W	ō
MOTA	1525	0	нон м	30	55.303	64.739	6.010	1.00 37.34	W	o
ATOM	1526	0	нон м	31	55.374	58.722	4.896	1.00 43.37	W	Ö
MOTA	1527	0	нон м	32	49.367	55.003	-15.758	1.00 50.69	W	Ö
MOTA	1528	0	нон м	33	46.439	77.858	19.645	1.00 52.52	W	ō
ATOM	1529	0	нон м	34	48.011	66.414	21.474	1.00 25.69	W	ŏ
MOTA	1530	0	нон м	35	51.521	51.838	4.481	1.00 42.60	W	ō
MOTA	1531	0	нон м	36	57.768	72.339	10.201	1.00 46.62	W	0
MOTA	1532	0	нон м	37	37.846	80.500	-11.735	1.00 50.47	W	0
MOTA	1533	0	нон м	38	49.047	70.595	19.637	1.00 34.22	W	0
ATOM	1534	0	нон м	39	18.847	71.613	8.947	1.00 55.09	W	0
ATOM	1535	0	HOH W	40	44.992	80.107	16.403	1.00 40.14	W	0
ATOM	1536	0	HOH W	41	51.025	59.019	18.298	1.00 37.20	W	0
ATOM	1537	0	HOH W	42	47.523	50.368	5.353	1.00 41.09	W	0
MOTA	1538	0	нон м	43	33.281	54.193	8.463	1.00 54.18	W	0
ATOM	1539	0	HOH W	44	59.392	63.665	-7.423	1.00 46.26	W	0
ATOM	1540	0	HOH W	45	50.906	49.282	6.122	1.00 49.09	W	0
MOTA	1541	0	HOH W	46	31.807	65.584	11.297	1.00 43.55	W	0
ATOM	1542	0	HOH W	47	45.814	80.130	-0.264	1.00 42.96	W	0
ATOM	1543	0	HOH W	48	37.473	68.410	5.395	1.00 35.66	W	0
ATOM	1544	0	HOH W	49	52.735	67.404	-4.047	1.00 34.88	W	0
ATOM	1545	0	HOH W	50	34.969	82.766	15.957	1.00 46.10	W	0
MOTA MOTA	1546	0	HOH W	51	47.638	77.435	-0.134	1.00 41.41	M	0
ATOM	1547	0	HOH W	52	60.884		-21.496	1.00 51.33	W	0
ATOM	1548 1549	0	HOH W	53	60.236		-23.675	1.00 54.66	W	0
MOTA	1550	0	HOH W	54	53.509		-18.242	1.00 33.00	W	0
ATOM	1551	0	HOH W	55	50.512	74.254	22.713	1.00 22.88	W	0
ATOM	1552	0	HOH W	56	63.728		-19.855	1.00 49.76	W	0
ATOM	1553	0	HOH W	57 58	59.413		-21.819	1.00 41.60	W	0
ATOM	1554	Ö	HOH W	59	46.721		-18.525	1.00 41.39	W	0
ATOM	1555	Ö	HOH W	60	39.935		-17.803	1.00 50.73	W	0
MOTA	1556	ō	HOH W	61	24.808 34.963	66.719	-5.316	1.00 46.59	W	0
ATOM	1557	Ō	HOH W	62	52.489		11.365 -19.819	1.00 48.22	W	0
MOTA	1558	0	HOH W	63	59.924		-20.955	1.00 44.02	W	0
MOTA	1559	0	HOH W	64	58.930		-22.603	1.00 37.71 1.00 44.18	W	0
MOTA	1560	0	нон м	65	67.578		-20.882	1.00 44.18	W	0
ATOM	1561	0	нон w	66	67.205	55.935	-5.932	1.00 60.12	W	0
ATOM	1562	0	HOH W	67	53.525	65.276	1.451	1.00 48.91	W	0
MOTA	1563	0	нон м	68	52.854	67.683	0.734	1.00 47.27	W W	0
MOTA	1564	0	нон w	69	67.793		-11.566	1.00 42.47	W	0
ATOM	1565	0	HOH W	70	52.376		-18.255	1.00 42.47	W	0
MOTA	1566	0	HOH W	71	53.854		-22.714	1.00 40.19	W	0
ATOM	1567	0	HOH W	72	51.995		-22.831	1.00 49.82	W	Ö
ATOM	1568	0	HOH W	73	51.204		-26.936	1.00 45.15	W	Ö
ATOM	1569	0	HOH W	74	37.800		-14.444	1.00 43.13	W	0
ATOM	1570	0	HOH W	75	51.840		-20.877	1.00 40.98	W	0
ATOM	1571	0	HOH W	76	55.740	73.560		1.00 47.12	W	0
ATOM	1572	0	HOH W	77	53.143	74.365	-2.217	1.00 47.12	W	0
ATOM	1573	0	HOH W	78	49.675	73.651	-0.162	1.00 48.53	W	0
MOTA	1574	0	нон w	79	39.602		-14.322	1.00 61.41	w	0
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ATOM	1575	0	нон	W	80	42.807	81.691	-10.357	1.00	45.13	W	0
ATOM	1576	0	НОН			38.823	81.808	-9.309		40.41	W	Õ
MOTA	1577	Ó	нон			39.138	81.139	-5.458		41.89	W	Ö
ATOM	1578	0	нон			42.786	81.891	-6.928		34.18	W	Ö
ATOM	1579	0	нон		84	48.842	81.394	-9.703		41.18	W	o
ATOM	1580	Ó	НОН		85	49.337	86.499	-13.856		45.74	W	Ö
ATOM	1581	ō	нон		86	39.242	68.644	21.970		41.67	W	Ö
ATOM	1582	Ō	нон		87	37.860	72.193	20.200		50.26	W	Ö
ATOM	1583	ō	нон		88	39.023	74.111	23.542		58.82	W	Ö
ATOM	1584	Ö	нон		89	34.332	74.670	23.845		48.86	W	Ö
ATOM	1585	Ó	нон		90	28.620	79.710	-8.479		47.63	W	Ö
ATOM	1586	0	НОН		91	34.692	75.198	-10.675		52.41	W	ŏ
MOTA	1587	o	НОН		92	20.823	64.841	-3.584		51.26	W	ŏ
ATOM	1588	0	нон		93	31.333	65.379	8.482		46.51	W	ő
ATOM	1589	0	НОН		94	60.270	79.277	-6.509		54.12	W	ŏ
MOTA	1590	0	нон		95	38.107	82.069	10.845		53.15	W	ō
MOTA	1591	0	нон	W	96	36.215	85.457	6.374		60.09	W	ō
MOTA	1592	0	нон	W	97	29.494	77.621	0.711		49.89	W	Ō
ATOM	1593	0	нон	W	98	27.730	79.793	10.538		50.55	W	Ō
MOTA	1594	0	нон	W	99	30.043	81.050	10.692	1.00	60.76	W	0
MOTA	1595	0	нон	W	100	34.636	61.952	18.734		49.06	W	0
MOTA	1596	0	нон	W	101	32.859	74.761	19.605	1.00	47.67	W	0
MOTA	1597	0	нон	W	102	40.473	73.226	20.027	1.00	51.19	W	0
MOTA	1598	0	нон	W	103	47.036	75.374	25.994	1.00	49.51	W	0
MOTA	1599	0	нон	W	104	46.745	79.701	23.325	1.00	48.71	W	0
MOTA	1600	0	HOH	W	105	55.713	56,128	-25.971	1.00	56.61	W	0
MOTA	1601	0			106	36.667	59.129	-2.628	1.00	55.67	W	0
MOTA	1602	0			107	44.326	54.528	0.795	1.00	52.63	W	0
MOTA	1603	0			108	48.981	51.885	3.187	1.00	44.79	W	0
ATOM	1604	0			109	37.660	79.531	0.981	1.00	41.36	W	0
ATOM	1605	0	нон			45.882	84.878	0.250	1.00	55.76	W	0
MOTA	1606	0	нон			50.514	85.144	0.286	1.00	52.85	W	0
ATOM	1607	0			112	56.927	64.753	-0.418	1.00	51.84	W	0
ATOM	1608	0	нон			24.361	72.283	-12.242	1.00	46.45	W	0
MOTA	1609	0	НОН			52.506		-11.179		44.76	W	0
MOTA	1610	0	НОН			46.458		-15.671		55.55	W	0
ATOM	1611	0	НОН			45.411	84.226	22.861	1.00	53.91	W	0
ATOM	1612	0	нон			49.323	84.189	17.080		53.28	W	0
ATOM	1613	0	НОН			47.685	49.068	-8.878		53.95	W	0
ATOM	1614	0	НОН			44.407		-15.389		57.35	W	0
ATOM	1615	0	НОН			42.798		-13.440		46.47	W	0
MOTA MOTA	1616	0	HOH			46.920		-17.645		52.58	W	0
ATOM	1617 1620	0	HOH			43.337		-11.759		39.15	W	0
ATOM	1618	O CA+2	HOH			35.113	79.874	-0.770		20.00	W	0
ATOM	-	CA+2				49.407	76.380	9.706		39.97	A2	CA
END	1019	CATZ	CAZ	А	202	46.567	70.322	19.730	1.00	29.85	A2	CA

	Atom Type	<u>Res</u> .	Res. <u>No</u> .	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>occ</u> .	<u>B</u>
ATOM	1 CB	ASP	39	55.214	55.356	40.811	1.00	70.50
ATOM	2 CG	ASP	39	55.894	54.242	40.016		70.41
ATOM	3 OD:	l ASP	39	56.377	53.268	40.638		68.36
ATOM	4 OD:	2 ASP	39	55.952	54.344	38.774		70.30
MOTA	5 C	ASP	39	53.337	55.993	39.281		69.71
MOTA	6 0	ASP	3 9	52.251	56.259	39.808		70.09
ATOM	7 N	ASP	39	54.388	57.699	40.722		70.21
ATOM	8 CA	ASP	39	54.643	56.466	39.916	1.00	70.16
MOTA	9 N	GLU	40	53.443	55.306	38.145		68.66
ATOM 1	0 CA	GLU	40	52.265	54.796	37.449		67.27
ATOM 1	1 CB	GLU	40	51.504	55.944	36.770		69.13
ATOM 1	2 CG	GLU	40	52.339	57.175	36.421		73.34
ATOM 1	3 CD	GLU	40	53.141	57.031	35.134		76.70
ATOM 1	4 OE	1 GLU	40	52.523	56.846	34.061		77.69
ATOM 1	5 OE	2 GLU	40	54.389	57.114	35.192		78.70
ATOM 1	6 C	GLU	40	52.544	53.681	36.442		64.60
ATOM 1	7 0	GLU	40	53.676	53.476	36.009		63.65
ATOM 1	8 И	LEU	41	51.486	52.957	36.091		62.33
ATOM 1	9 CA	LEU	41	51.557	51.843	35.153		60.05
ATOM 2		LEU	41	50.314	50.957	35.277		59.92
ATOM 2		LEU	41	50.100	50.145	36.551		60.42
ATOM 2		1 LEU	41	48.752	49.440	36.464		60.03
ATOM 2			41	51.228	49.134	36.721		60.26
ATOM 2		LEU	_ 41	51.668	52.279	33.704		58.41
ATOM 2		LEU	41	50.915	53.140	33.244		58.19
ATOM 2		ILE	42	52.608	51.680	32.982		55.99
ATOM 2		ILE	42	52.760	51.984	31.572		53.15
ATOM 2		ILE	42	54.181	52.490	31.225		53.72
ATOM 2			42	54.437	53.835	31.893		53.90
ATOM 3			42	55.229	51.481	31.670		53.56
ATOM 3			42	56.632	51.956	31.414		54.40
ATOM 3		ILE	42	52.475	50.701	30.812		51.19
	3 0	ILE	42	52.784	49.607	31.289		50.52
	4 N	VAL	43	51.860	50.844	29.646		48.59
	5 CA		43	51.530	49.712	28.801		46.67
	6 CB		43	50.139	49.871	28.197		45.09
	7 CG		43	49.847	48.712	27.254		43.49
	8 CG		43	49.126	49.953	29.298		43.23
	9 C	VAL	43	52.537	49.575	27.658		45.20
	0 0	VAL	43	52.758	50.501	26.888		45.72
	1 N	LEU	44	53.149	48.408 48.134	27.565 26.522		43.72
	2 CA 3 CB		44 44	54.121 55.398	47.579	27.157		44.64
	4 CG		44	56.040	48.607	28.092		45.81
		1 LEU	44	56.923	47.932	29.127		47.40
		2 LEU	44	56.835	49.601	27.254		46.63
	7 C	LEU	44	53.499	47.118	25.572		41.96
	8 0	LEU	44	53.538	45.917	25.824		41.75
	9 N	ASN	45	52.890	47.606	24.501		39.44
	O CA		45	52.272	46.725	23.528		38.57
	1 CE		45	51.255	47.488	22.678		36.89
	52 CG		45	50.514	46.583	21.704		39.46
		1 ASN	45	51.026	45.538	21.273		38.79
		2 ASN	45	49.306	46.987	21.339		38.46
	55 C	ASN	45	53.365	46.152	22.620		38.24
	6 0	ASN	45	53.986	46.882	21.839		37.59
	57 N	VAL	46	53.592	44.845	22.724		37.26
	8 CA		46	54.606	44.176	21.915		36.19
	59 CE		46	55.604	43.442	22.825		34.19
		SI VAL	46	56.746	42.812	21.988		31.81

ATOM 61 CGZ VAL 46										
ATOM 63 O VAL 46 53.558 42.089 21.345 1.00 37.84 ATOM 65 CA SER 47 53.551 42.089 19.715 1.00 40.58 ATOM 66 CB SER 47 53.087 42.831 18.694 1.00 42.58 ATOM 66 CB SER 47 53.087 42.831 18.694 1.00 42.58 ATOM 67 OG SER 47 55.086 41.500 18.423 1.00 44.39 ATOM 68 C SER 47 51.664 42.477 19.068 1.00 43.26 ATOM 69 O SER 47 51.664 42.477 19.068 1.00 43.26 ATOM 70 N GLY 48 51.011 43.369 19.806 1.00 43.21 ATOM 71 CA GLY 48 49.501 42.540 21.591 1.00 44.57 ATOM 72 C GLY 48 49.501 42.540 21.591 1.00 44.57 ATOM 73 C GLY 48 49.501 42.540 21.591 1.00 44.57 ATOM 74 N ARG 49 50.588 41.996 22.128 1.00 45.13 ATOM 75 CA ARG 49 50.576 41.416 23.466 1.00 45.66 ATOM 76 CB ARG 49 50.576 41.416 23.466 1.00 45.66 ATOM 77 CG ARG 49 51.596 40.264 23.547 1.00 45.57 ATOM 77 CG ARG 49 50.576 41.416 23.466 1.00 46.66 ATOM 78 CD ARG 49 50.576 38.277 22.933 1.00 58.66 ATOM 79 NE ARG 49 50.575 38.277 22.933 1.00 58.66 ATOM 78 CD ARG 49 50.576 38.277 22.933 1.00 58.66 ATOM 78 CD ARG 49 50.576 38.277 22.933 1.00 58.66 ATOM 80 CZ ARG 49 50.137 37.464 24.127 1.00 62.73 ATOM 81 NH1 ARG 49 51.934 36.453 24.192 1.00 61.18 ATOM 83 C ARG 49 50.957 38.277 22.933 1.00 58.66 ATOM 86 CA ARG 49 50.957 38.277 22.933 1.00 58.66 ATOM 87 CB ARG 49 50.957 38.277 22.933 1.00 58.66 ATOM 88 CG ARG 49 50.957 32.243 1.00 61.18 ATOM 88 CG ARG 49 50.957 42.550 24.408 1.00 61.18 ATOM 88 CG ARG 50 50.317 37.464 24.127 1.00 62.73 ATOM 88 CG ARG 50 50.404 44.075 25.129 1.00 64.12 ATOM 98 NH1 ARG 50 48.695 50.940 42.955 25.253 1.00 64.70 ATOM 99 CR ARG 50 50.404 44.075 26.149 1.00 64.66 ATOM 90 NE ARG 50 50.404 44.075 26.149 1.00 64.32 ATOM 90 NE ARG 50 50.404 44.075 26.149 1.00 64.32 ATOM 90 NE ARG 50 46.685 46.573 23.713 1.00 64.32 ATOM 90 NE ARG 50 50.404 44.135 29.037 1.00 46.66 ATOM 90 NE ARG 50 50.404 44.135 29.037 1.00 46.66 ATOM 90 NE ARG 50 46.689 44.911 25.299 1.00 67.42 ATOM 90 NE ARG 50 46.689 44.911 25.299 1.00 67.42 ATOM 90 NE ARG 50 50.404 44.135 29.037 1.00 46.65 ATOM 100 CD1 PHE 51 54.426 42.601 28.103 1.00 38.74 ATOM 101 CD2 PHE 51 54.426 42.601 28.103 1.00 38.7	ATOM	61	CG2	VAL	46	56.140	44.432	23.864	1.00	30.02
ATOM 64 N SER 47 53.051 43.632 19.715 1.00 40.58 ATOM 65 CA SER 47 53.087 42.831 18.694 1.00 42.58 ATOM 66 CB SER 47 53.087 42.831 18.694 1.00 42.58 ATOM 66 CB SER 47 55.086 41.902 17.792 1.00 50.88 ATOM 69 C SER 47 51.664 42.477 19.068 1.00 43.25 ATOM 69 C SER 47 51.664 42.477 19.068 1.00 43.25 ATOM 70 N GLY 48 51.011 43.369 19.806 1.00 43.21 ATOM 71 CA GLY 48 49.638 43.125 20.202 1.00 44.14 ATOM 73 C GLY 48 49.638 43.125 20.202 1.00 44.14 ATOM 73 C GLY 48 49.638 43.125 20.202 1.00 44.13 ATOM 73 N GLY 48 48.420 42.573 22.165 1.00 44.57 ATOM 76 CA ARG 49 50.588 41.416 23.466 1.00 46.53 ATOM 77 C G ARG 49 50.588 41.416 23.466 1.00 46.66 ATOM 76 CB ARG 49 51.293 39.127 22.542 1.00 55.75 ATOM 77 CG ARG 49 51.293 39.127 22.542 1.00 55.75 ATOM 78 CD ARG 49 50.377 37.464 24.127 1.00 62.33 ATOM 80 CZ ARG 49 51.193 36.453 24.192 1.00 64.10 ATOM 81 NH1 ARG 49 50.317 37.464 24.127 1.00 62.33 ATOM 80 CZ ARG 49 51.193 36.453 24.192 1.00 64.10 ATOM 81 NH1 ARG 49 51.913 36.453 24.192 1.00 64.10 ATOM 82 NH2 ARG 49 51.93 35.799 25.340 1.00 64.57 ATOM 86 CA ARG 50 50.948 42.550 24.408 1.00 46.66 ATOM 87 NE ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 88 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 88 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 88 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 88 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 89 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 90 NE ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 90 NE ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 91 CZ ARG 50 44.969 44.911 26.279 1.00 49.59 ATOM 98 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 99 CB ARG 50 46.605 46.605 46.573 23.713 1.00 64.32 ATOM 99 CB ARG 50 46.605 46.605 46.573 23.713 1.00 64.32 ATOM 99 CB ARG 50 46.606 44.4127 29.299 1.00 49.59 ATOM 99 CB ARG 50 46.606 44.911 26.279 1.00 49.59 ATOM 90 NE ARG 50 50.466 49 44.379 22.999 1.00 67.42 ATOM 90 NE ARG 50 46.606 47.4133 27.773 1.00 60.00 40.00	ATOM	62	С	VAL	46	53.923	43.199	20.961	1.00	38.32
ATOM 64 N SER 47 53.051 43.632 19.715 1.00 40.58 ATOM 65 CA SER 47 53.087 42.831 18.694 1.00 42.58 ATOM 66 CB SER 47 53.087 42.831 18.694 1.00 42.58 ATOM 66 CB SER 47 55.086 41.902 17.792 1.00 50.88 ATOM 69 C SER 47 51.664 42.477 19.068 1.00 43.25 ATOM 69 C SER 47 51.664 42.477 19.068 1.00 43.25 ATOM 70 N GLY 48 51.011 43.369 19.806 1.00 43.21 ATOM 71 CA GLY 48 49.638 43.125 20.202 1.00 44.14 ATOM 73 C GLY 48 49.638 43.125 20.202 1.00 44.14 ATOM 73 C GLY 48 49.638 43.125 20.202 1.00 44.13 ATOM 73 N GLY 48 48.420 42.573 22.165 1.00 44.57 ATOM 76 CA ARG 49 50.588 41.416 23.466 1.00 46.53 ATOM 77 C G ARG 49 50.588 41.416 23.466 1.00 46.66 ATOM 76 CB ARG 49 51.293 39.127 22.542 1.00 55.75 ATOM 77 CG ARG 49 51.293 39.127 22.542 1.00 55.75 ATOM 78 CD ARG 49 50.377 37.464 24.127 1.00 62.33 ATOM 80 CZ ARG 49 51.193 36.453 24.192 1.00 64.10 ATOM 81 NH1 ARG 49 50.317 37.464 24.127 1.00 62.33 ATOM 80 CZ ARG 49 51.193 36.453 24.192 1.00 64.10 ATOM 81 NH1 ARG 49 51.913 36.453 24.192 1.00 64.10 ATOM 82 NH2 ARG 49 51.93 35.799 25.340 1.00 64.57 ATOM 86 CA ARG 50 50.948 42.550 24.408 1.00 46.66 ATOM 87 NE ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 88 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 88 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 88 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 88 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 89 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 90 NE ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 90 NE ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 91 CZ ARG 50 44.969 44.911 26.279 1.00 49.59 ATOM 98 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 99 CB ARG 50 46.605 46.605 46.573 23.713 1.00 64.32 ATOM 99 CB ARG 50 46.605 46.605 46.573 23.713 1.00 64.32 ATOM 99 CB ARG 50 46.606 44.4127 29.299 1.00 49.59 ATOM 99 CB ARG 50 46.606 44.911 26.279 1.00 49.59 ATOM 90 NE ARG 50 50.466 49 44.379 22.999 1.00 67.42 ATOM 90 NE ARG 50 46.606 47.4133 27.773 1.00 60.00 40.00	ATOM	63	0	VAL	46	53.558	42.089	21.345	1.00	37.84
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ATOM 76 CB ARG 49 51.586 40.264 23.547 1.00 49.65 ATOM 77 CG ARG 49 51.293 39.127 22.542 1.00 58.66 ATOM 78 CD ARG 49 50.057 38.277 22.933 1.00 58.66 ATOM 79 NE ARG 49 50.317 37.464 24.127 1.00 64.10 ATOM 80 CZ ARG 49 51.193 36.453 24.192 1.00 64.10 ATOM 81 NH1 ARG 49 51.914 36.097 23.126 1.00 61.18 ATOM 82 NH2 ARG 49 51.362 35.799 25.340 1.00 64.16 ATOM 83 C ARG 49 51.362 35.799 25.340 1.00 64.66 ATOM 84 O ARG 49 50.948 42.550 24.088 1.00 46.65 ATOM 85 N ARG 50 50.948 42.550 24.088 1.00 46.65 ATOM 86 CA ARG 50 50.004 42.955 25.253 1.00 46.55 ATOM 86 CA ARG 50 50.244 44.075 26.149 1.00 47.08 ATOM 87 CB ARG 50 48.969 44.911 26.279 1.00 47.08 ATOM 88 CG ARG 50 48.547 45.537 24.950 1.00 58.12 ATOM 90 NE ARG 50 46.685 46.573 23.713 1.00 64.32 ATOM 91 CZ ARG 50 46.668 46.574 25.377 22.950 1.00 58.12 ATOM 92 NH1 ARG 50 46.645 46.264 45.669 22.767 1.00 66.71 ATOM 92 NH1 ARG 50 46.649 44.379 22.999 1.00 66.71 ATOM 94 C ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 95 O ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 97 CA PHE 51 52.644 44.313 27.773 1.00 42.53 ATOM 98 CB PHE 51 52.644 44.313 27.773 1.00 42.53 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 99 CB PHE 51 54.451 42.526 26.704 1.00 37.47 ATOM 99 CB PHE 51 54.451 42.526 26.004 1.00 36.74 ATOM 100 CD1 PHE 51 54.451 42.526 26.004 1.00 37.47 ATOM 99 CB PHE 51 54.451 42.526 26.004 1.00 36.74 ATOM 100 CD2 PHE 51 55.049 40.183 26.810 1.00 37.67 ATOM 101 CD2 PHE 51 54.451 42.526 26.004 1.00 37.67 ATOM 102 CB1 PHE 51 55.049 40.183 26.810 1.00 37.67 ATOM 103 CB2 PHE 51 55.049 40.183 26.810 1.00 37.67 ATOM 104 CB PHE 51 52.334 46.490 29.342 1.00 41.27 ATOM 105 CB PHE 51 52.334 46.490 29.342 1.00 41.27 ATOM 106 CB GLN 52 53.337 46.320 33.132 1.00 44.67 ATOM 107 N GLN 52 54.451 42.526 26.704 1.00 37.67 ATOM 108 CB GLN 52 52.579 46.383 32.052 1.00 43.58 ATOM 107 N GLN 52 54.451 47.878 33.337 1.00 45.75 ATOM 108 CB GLN 52 55.649 47.486 33.533 1.00 45.67 ATOM 108 CB GLN 52 55.659 48.220 32.400 1.00 45.23 ATOM 116 N THR 53 54.800 47.486 33.533 1.00 44.67 ATOM 118 CB THR 5										
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ATOM 78 CD ARG 49 50.057 38.277 22.933 1.00 58.66 ATOM 79 NE ARG 49 50.317 37.464 24.127 1.00 64.10 ATOM 80 CZ ARG 49 51.914 36.453 22.126 1.00 61.18 ATOM 81 NH1 ARG 49 51.362 35.799 25.106 1.00 46.66 ATOM 83 C ARG 49 50.948 42.550 24.408 1.00 46.65 ATOM 85 N ARG 50 50.004 42.955 25.439 1.00 46.66 ATOM 85 N ARG 50 50.244 44.075 26.149 1.00 47.08 ATOM 87 CB ARG 50 48.547 45.537 24.950 1.00 47.08 ATOM 90 NE ARG 50 46.689 <td></td> <td></td> <td></td> <td></td> <td>49</td> <td>51.586</td> <td></td> <td>23.547</td> <td></td> <td></td>					49	51.586		23.547		
ATOM 79 NE ARG 49 50.317 37.464 24.127 1.00 62.73 ATOM 80 CZ ARG 49 51.193 36.453 24.192 1.00 61.18 ATOM 81 NH1 ARG 49 51.914 36.097 23.126 1.00 61.18 ATOM 82 NH2 ARG 49 51.362 35.799 23.126 1.00 61.18 ATOM 82 NH2 ARG 49 51.362 35.799 25.340 1.00 64.18 ATOM 84 O ARG 49 50.948 42.550 24.408 1.00 46.66 ATOM 85 N ARG 50 50.004 42.955 22.353 1.00 46.57 ATOM 86 CA ARG 50 50.004 42.955 22.253 1.00 46.57 ATOM 86 CA ARG 50 50.244 44.075 26.149 1.00 47.08 ATOM 87 CB ARG 50 48.969 44.911 26.279 1.00 49.59 ATOM 88 CG ARG 50 48.547 45.537 24.950 1.00 54.03 ATOM 89 CD ARG 50 46.685 46.573 23.713 1.00 66.74 ATOM 90 NE ARG 50 46.685 46.573 23.713 1.00 66.74 ATOM 91 CZ ARG 50 46.685 46.573 23.713 1.00 66.74 ATOM 92 NH1 ARG 50 46.649 44.379 22.999 1.00 66.06 ATOM 93 NH2 ARG 50 46.649 44.379 22.999 1.00 66.06 ATOM 94 C ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 95 O ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 97 CA PHE 51 51.974 44.313 27.773 1.00 42.53 ATOM 98 CB PHE 51 54.426 42.601 28.121 1.00 39.97 ATOM 99 CG PHE 51 54.426 42.601 28.121 1.00 39.97 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 101 CD2 PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 102 CE1 PHE 51 55.020 40.247 28.209 1.00 37.47 ATOM 103 CE2 PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 104 CZ PHE 51 54.426 42.601 28.103 1.00 38.26 ATOM 105 C PHE 51 55.029 40.183 26.810 1.00 37.47 ATOM 106 O PHE 51 52.457 45.391 29.873 1.00 40.85 ATOM 107 N GLN 52 52.334 46.490 29.322 1.00 43.58 ATOM 108 CA GLN 52 52.334 46.490 29.322 1.00 43.58 ATOM 109 CG GLN 52 52.334 46.4640 32.293 1.00 50.50 ATOM 110 CD GLN 52 48.431 46.856 32.400 1.00 50.70 ATOM 110 CD GLN 52 48.431 46.856 32.400 1.00 50.70 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 45.28 ATOM 110 CG GLN 52 53.337 46.230 33.132 1.00 45.28 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 45.28 ATOM 112 CA THR 53 54.800 47.486 33.533 1.00 43.67 ATOM 113 CB GLN 52 53.337 46.		77	CG		49		39.127			
ATOM 80 CZ ARG 49 51.193 36.453 24.192 1.00 64.10 ATOM 81 NH1 ARG 49 51.914 36.097 23.126 1.00 64.18 ATOM 82 NH2 ARG 49 51.362 35.799 23.126 1.00 64.18 ATOM 83 C ARG 49 50.948 42.550 24.408 1.00 46.66 ATOM 84 O ARG 49 50.948 42.550 24.408 1.00 46.66 ATOM 85 N ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 86 CA ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 87 CB ARG 50 50.244 44.075 26.149 1.00 49.58 ATOM 88 CG ARG 50 48.969 44.911 26.279 1.00 49.59 ATOM 88 CG ARG 50 48.547 45.537 24.950 1.00 54.03 ATOM 89 CD ARG 50 46.665 46.573 23.713 1.00 66.71 ATOM 90 NE ARG 50 46.665 46.573 23.713 1.00 66.71 ATOM 91 CZ ARG 50 46.649 44.379 22.999 1.00 66.74 ATOM 92 NH1 ARG 50 46.649 44.379 22.999 1.00 66.74 ATOM 93 NH2 ARG 50 45.938 46.051 21.589 1.00 45.72 ATOM 94 C ARG 50 50.800 43.765 27.518 1.00 45.53 ATOM 95 O ARG 50 50.800 43.765 27.518 1.00 45.73 ATOM 96 N PHE 51 51.974 44.131 27.773 1.00 45.73 ATOM 97 CA PHE 51 51.974 44.131 27.773 1.00 41.07 ATOM 98 CB PHE 51 54.426 42.601 28.789 1.00 39.97 ATOM 99 CG PHE 51 54.426 42.601 28.789 1.00 39.97 ATOM 99 CG PHE 51 54.426 42.601 28.789 1.00 39.97 ATOM 101 CD2 PHE 51 54.426 42.601 28.789 1.00 39.97 ATOM 104 CZ PHE 51 54.426 42.601 28.789 1.00 39.97 ATOM 105 CP PHE 51 54.426 42.601 28.209 1.00 37.47 ATOM 106 CD1 PHE 51 54.426 42.601 28.209 1.00 37.47 ATOM 107 CD2 PHE 51 54.426 42.601 28.209 1.00 37.47 ATOM 108 CA GLN 52 52.457 45.391 29.833 1.00 41.27 ATOM 109 CB GLN 52 52.457 45.391 29.833 1.00 41.27 ATOM 100 CD1 CPHE 51 54.766 41.329 26.052 1.00 38.16 ATOM 100 CD1 CD1 CPHE 51 52.457 45.391 29.373 1.00 41.27 ATOM 100 CG GLN 52 48.431 47.878 33.037 1.00 41.27 ATOM 101 CC2 CH CPHE 51 52.334 46.490 29.342 1.00 41.27 ATOM 103 CC2 PHE 51 52.334 46.490 29.342 1.00 41.27 ATOM 104 CZ CHE S1 52.334 46.490 29.342 1.00 41.27 ATOM 105 C CH CPHE 51 52.334 46.490 29.342 1.00 41.27 ATOM 106 C CH CPHE 51 52.334 46.490 29.342 1.00 41.27 ATOM 107 N GLN 52 48.431 47.878 33.037 1.00 40.65 ATOM 109 CB GLN 52 52.457 45.844 32.293 1.00 50.50 ATOM 109 CB GLN 52 52.457 45.844 32.293 1.00 40.65 ATOM 116		78	CD	ARG	49	50.057			1.00	58.66
ATOM 81 NH1 ARG 49 51.914 36.097 23.126 1.00 61.18 ATOM 82 NH2 ARG 49 51.362 35.799 25.340 1.00 64.18 ATOM 83 C ARG 49 50.948 42.550 24.408 1.00 46.66 ATOM 84 O ARG 49 52.070 43.055 24.369 1.00 46.65 ATOM 85 N ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 86 CA ARG 50 50.244 44.075 26.1149 1.00 47.08 ATOM 87 CB ARG 50 50.244 44.075 26.1149 1.00 47.08 ATOM 88 CG ARG 50 50.244 44.075 26.1149 1.00 47.08 ATOM 88 CG ARG 50 48.969 44.911 26.279 1.00 49.59 ATOM 88 CG ARG 50 48.547 45.537 24.950 1.00 58.12 ATOM 99 NE ARG 50 46.685 46.573 23.713 1.00 64.32 ATOM 99 NE ARG 50 46.685 46.573 23.713 1.00 64.32 ATOM 91 CZ ARG 50 46.642 45.6669 22.767 1.00 66.71 ATOM 92 NH1 ARG 50 46.649 44.379 22.999 1.00 67.42 ATOM 93 NH2 ARG 50 45.938 46.051 21.589 1.00 67.42 ATOM 94 C ARG 50 50.195 43.066 28.21 1.00 42.53 ATOM 95 O ARG 50 50.195 43.066 28.22 1.00 42.53 ATOM 96 N PHE 51 51.974 44.313 27.773 1.00 42.53 ATOM 97 CA PHE 51 52.644 44.135 29.037 1.00 41.07 ATOM 98 CB PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 39.97 ATOM 99 CG PHE 51 54.426 42.501 28.806 1.00 37.47 ATOM 100 CD1 PHE 51 54.426 42.501 28.103 1.00 39.97 ATOM 100 CD2 PHE 51 54.426 42.501 28.103 1.00 37.47 ATOM 103 CE2 PHE 51 54.426 42.501 28.103 1.00 37.47 ATOM 104 CZ PHE 51 54.760 41.329 26.052 1.00 38.16 ATOM 105 C PHE 51 52.334 46.490 29.342 1.00 41.27 ATOM 106 CG GLN 52 49.766 46.887 31.077 1.00 41.27 ATOM 107 N GLN 52 52.457 45.391 29.873 1.00 42.53 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 44.64 ATOM 109 CB GLN 52 52.279 46.383 32.072 1.00 50.70 ATOM 112 CG GLN 52 49.766 46.687 31.707 1.00 41.07 ATOM 113 NEZ GLN 52 49.766 46.687 31.707 1.00 41.07 ATOM 110 CG GLN 52 49.766 46.887 31.707 1.00 41.07 ATOM 110 CG GLN 52 49.766 46.887 31.707 1.00 41.07 ATOM 111 CD GLN 52 49.766 46.887 31.707 1.00 41.07 ATOM 112 CG GLN 52 49.766 46.897 33.539 1.00 50.50 ATOM 114 C GLN 52 49.766 46.490 29.342 1.00 44.61 ATOM 115 O GLN 52 49.766 46.897 33.539 1.00 40.85 ATOM 116 N THR 53 53.66.892 48.203 32.941 1.00 44.62 ATOM 118 CB THR 53 53.66.8	ATOM	79		ARG	49		37.464	24.127		
ATOM	MOTA	80	CZ	ARG	49	51.193	36.453	24.192	1.00	64.10
ATOM 83 C ARG 49 50.948 42.550 24.408 1.00 46.66 ATOM 84 O ARG 49 52.070 43.055 24.369 1.00 46.65 ATOM 85 N ARG 50 50.004 42.955 25.253 1.00 46.65 ATOM 86 CA ARG 50 50.004 42.955 25.252 1.00 47.08 ATOM 87 CB ARG 50 50.244 44.075 26.149 1.00 47.08 ATOM 87 CB ARG 50 48.547 45.537 24.950 1.00 54.03 ATOM 89 CD ARG 50 47.215 46.249 25.040 1.00 58.12 ATOM 90 NE ARG 50 46.685 46.573 23.713 1.00 64.32 ATOM 91 CZ ARG 50 46.685 46.573 23.713 1.00 66.71 ATOM 92 NH1 ARG 50 46.668 45.669 22.767 1.00 66.71 ATOM 93 NH2 ARG 50 46.649 44.379 22.999 1.00 67.42 ATOM 94 C ARG 50 45.938 46.051 21.589 1.00 66.06 ATOM 95 O ARG 50 50.195 43.066 28.321 1.00 45.72 ATOM 95 O ARG 50 50.195 43.066 28.321 1.00 45.72 ATOM 97 CA PHE 51 52.644 44.313 27.773 1.00 42.53 ATOM 97 CA PHE 51 52.644 44.313 27.773 1.00 42.53 ATOM 98 CB PHE 51 54.131 43.896 28.789 1.00 38.27 ATOM 99 CG PHE 51 54.131 43.896 28.789 1.00 38.27 ATOM 99 CG PHE 51 54.131 43.896 28.789 1.00 37.97 ATOM 101 CD2 PHE 51 54.426 42.601 28.103 1.00 37.97 ATOM 103 CE2 PHE 51 54.456 42.601 28.103 1.00 37.97 ATOM 103 CE2 PHE 51 54.456 42.601 28.103 1.00 37.47 ATOM 103 CE2 PHE 51 55.020 40.247 28.209 1.00 37.47 ATOM 104 CZ PHE 51 55.049 40.183 26.816 1.00 37.97 ATOM 105 C PHE 51 55.020 40.247 28.209 1.00 37.47 ATOM 105 C PHE 51 55.020 40.247 28.209 1.00 37.47 ATOM 105 C PHE 51 55.049 40.183 26.816 1.00 37.64 ATOM 105 C PHE 51 55.049 40.183 26.816 1.00 37.64 ATOM 105 C PHE 51 55.049 40.183 26.816 1.00 37.64 ATOM 105 C PHE 51 52.457 45.391 29.873 1.00 40.85 ATOM 106 C PHE 51 52.457 45.391 29.873 1.00 40.85 ATOM 107 N GLNN 52 52.444 45.232 31.182 1.00 41.29 ATOM 107 N GLNN 52 52.444 45.833 32.052 1.00 43.58 ATOM 107 N GLNN 52 52.457 45.391 29.873 1.00 40.85 ATOM 107 N GLNN 52 53.337 46.320 33.132 1.00 44.60 ATOM 112 CD GLN 52 48.431 46.856 32.400 1.00 50.50 ATOM 112 CD GLN 52 48.431 46.856 32.400 1.00 50.50 ATOM 113 NE2 GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 113 NE2 GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 C GLN 52 53.337 46.320	MOTA	81	NHl	ARG	49	51.914	36.097	23.126	1.00	61.18
ATOM 84 O ARG 49 52.070 43.055 24.369 1.00 46.65 ATOM 85 N ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 86 CA ARG 50 50.244 44.075 26.149 1.00 47.08 ATOM 87 CB ARG 50 48.969 44.911 26.279 1.00 49.59 ATOM 88 CG ARG 50 48.969 44.911 26.279 1.00 49.59 ATOM 88 CG ARG 50 48.547 45.537 24.950 1.00 54.03 ATOM 89 CD ARG 50 47.215 46.249 25.040 1.00 58.12 ATOM 90 NE ARG 50 46.685 46.573 23.713 1.00 64.32 ATOM 91 CZ ARG 50 46.685 46.573 23.713 1.00 66.71 ATOM 92 NH1 ARG 50 46.6426 45.669 22.767 1.00 66.71 ATOM 93 NH2 ARG 50 46.649 44.379 22.999 1.00 67.42 ATOM 94 C ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 95 O ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 96 N PHE 51 51.974 44.313 27.773 1.00 42.53 ATOM 97 CA PHE 51 52.644 44.135 29.037 1.00 41.07 ATOM 98 CB PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 99 CG PHE 51 54.451 42.526 26.704 1.00 37.97 ATOM 100 CD1 PHE 51 54.768 41.455 28.846 1.00 37.97 ATOM 102 CE1 PHE 51 54.768 41.455 28.846 1.00 37.47 ATOM 103 C22 PHE 51 54.451 42.526 26.704 1.00 37.97 ATOM 104 CZ PHE 51 54.768 41.455 28.846 1.00 37.47 ATOM 105 C PHE 51 55.020 40.247 28.209 1.00 37.47 ATOM 104 CZ PHE 51 54.768 41.455 28.846 1.00 37.47 ATOM 105 C PHE 51 52.457 45.391 29.873 1.00 40.85 ATOM 105 C PHE 51 52.457 45.391 29.873 1.00 41.27 ATOM 106 C PHE 51 52.344 45.322 31.120 41.27 ATOM 107 N GLN 52 52.457 45.391 29.873 1.00 41.27 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 37.47 ATOM 106 C PHE 51 52.344 45.322 31.122 1.00 41.27 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 37.47 ATOM 107 N GLN 52 52.457 45.391 29.873 1.00 40.85 ATOM 107 N GLN 52 53.337 46.320 33.332 1.00 44.60 ATOM 115 C GLN 52 53.333 46.320 33.332 1.00 44.60 ATOM 115 C GLN 52 53.333 46.320 33.332 1.00 44.60 ATOM 115 C GLN 52 53.333 46.320 33.332 1.00 44.60 ATOM 116 C GLN 52 53.333 46.320 33.332 1.00 44.60 ATOM 115 C ATRR 53 54.800 47.534 34.569 1.00 43.67 ATOM 116 N THR 53 53.53.33 45.241 33.589 1.00 43.67 ATOM 116 N THR 53 53.53.333 45.241 33.589 1.00 44.60 ATOM 117 CA THR 53 54.800 47.534 34.5	ATOM	82	NH2	ARG	49	51.362	35.799	25.340	1.00	64.18
ATOM 84 O ARG 49 52.070 43.055 24.369 1.00 46.65 ATOM 85 N ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 86 CA ARG 50 50.244 44.075 26.149 1.00 47.08 ATOM 87 CB ARG 50 48.969 44.911 26.279 1.00 49.59 ATOM 88 CG ARG 50 48.969 44.911 26.279 1.00 49.59 ATOM 88 CG ARG 50 48.547 45.537 24.950 1.00 54.03 ATOM 89 CD ARG 50 47.215 46.249 25.040 1.00 58.12 ATOM 90 NE ARG 50 46.685 46.573 23.713 1.00 64.32 ATOM 91 CZ ARG 50 46.685 46.573 23.713 1.00 66.71 ATOM 92 NH1 ARG 50 46.6426 45.669 22.767 1.00 66.71 ATOM 93 NH2 ARG 50 46.649 44.379 22.999 1.00 67.42 ATOM 94 C ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 95 O ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 96 N PHE 51 51.974 44.313 27.773 1.00 42.53 ATOM 97 CA PHE 51 52.644 44.135 29.037 1.00 41.07 ATOM 98 CB PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 99 CG PHE 51 54.451 42.526 26.704 1.00 37.97 ATOM 100 CD1 PHE 51 54.768 41.455 28.846 1.00 37.97 ATOM 102 CE1 PHE 51 54.768 41.455 28.846 1.00 37.47 ATOM 103 C22 PHE 51 54.451 42.526 26.704 1.00 37.97 ATOM 104 CZ PHE 51 54.768 41.455 28.846 1.00 37.47 ATOM 105 C PHE 51 55.020 40.247 28.209 1.00 37.47 ATOM 104 CZ PHE 51 54.768 41.455 28.846 1.00 37.47 ATOM 105 C PHE 51 52.457 45.391 29.873 1.00 40.85 ATOM 105 C PHE 51 52.457 45.391 29.873 1.00 41.27 ATOM 106 C PHE 51 52.344 45.322 31.120 41.27 ATOM 107 N GLN 52 52.457 45.391 29.873 1.00 41.27 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 37.47 ATOM 106 C PHE 51 52.344 45.322 31.122 1.00 41.27 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 37.47 ATOM 107 N GLN 52 52.457 45.391 29.873 1.00 40.85 ATOM 107 N GLN 52 53.337 46.320 33.332 1.00 44.60 ATOM 115 C GLN 52 53.333 46.320 33.332 1.00 44.60 ATOM 115 C GLN 52 53.333 46.320 33.332 1.00 44.60 ATOM 115 C GLN 52 53.333 46.320 33.332 1.00 44.60 ATOM 116 C GLN 52 53.333 46.320 33.332 1.00 44.60 ATOM 115 C ATRR 53 54.800 47.534 34.569 1.00 43.67 ATOM 116 N THR 53 53.53.33 45.241 33.589 1.00 43.67 ATOM 116 N THR 53 53.53.333 45.241 33.589 1.00 44.60 ATOM 117 CA THR 53 54.800 47.534 34.5	MOTA	83	С	ARG	49	50.948	42.550	24.408	1.00	46.66
ATOM 85 N ARG 50 50.004 42.955 25.253 1.00 46.57 ATOM 86 CA ARG 50 50.244 44.075 26.149 1.00 47.08 ATOM 87 CB ARG 50 48.969 44.911 26.279 1.00 49.59 ATOM 88 CG ARG 50 48.969 44.911 26.279 1.00 58.12 ATOM 89 CD ARG 50 47.215 46.249 25.040 1.00 58.12 ATOM 90 NE ARG 50 46.685 46.573 23.713 1.00 64.32 ATOM 91 CZ ARG 50 46.6426 45.669 22.767 1.00 66.71 ATOM 92 NH1 ARG 50 46.649 44.379 22.999 1.00 67.42 ATOM 93 NH2 ARG 50 45.649 44.379 22.999 1.00 66.06 ATOM 94 C ARG 50 45.938 46.051 21.589 1.00 48.72 ATOM 95 O ARG 50 50.800 43.765 27.518 1.00 48.72 ATOM 96 N PHE 51 51.974 44.313 27.773 1.00 48.18 ATOM 97 CA PHE 51 52.644 44.313 27.773 1.00 42.53 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 39.97 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 100 CD1 PHE 51 54.708 41.455 28.846 1.00 36.74 ATOM 101 CD2 PHE 51 54.426 42.601 28.103 1.00 37.97 ATOM 102 CE1 PHE 51 55.020 40.247 28.209 1.00 37.47 ATOM 103 CE2 PHE 51 55.020 40.247 28.209 1.00 37.64 ATOM 104 CZ PHE 51 55.049 40.183 26.810 1.00 37.64 ATOM 105 C PHE 51 55.049 40.183 26.810 1.00 37.64 ATOM 106 O PHE 51 52.447 45.331 29.873 1.00 41.27 ATOM 107 N GLN 52 52.447 45.391 29.873 1.00 41.27 ATOM 109 CB GLN 52 52.279 46.383 32.052 1.00 41.27 ATOM 109 CB GLN 52 52.279 46.383 32.052 1.00 43.58 ATOM 109 CB GLN 52 53.334 46.490 29.342 1.00 41.27 ATOM 101 CD GLN 52 52.279 46.383 32.052 1.00 41.27 ATOM 102 CE1 GLN 52 48.183 47.878 33.037 1.00 60.39 ATOM 104 CZ PHE 51 55.034 46.490 29.342 1.00 41.27 ATOM 105 C GLN 52 53.333 46.320 33.132 1.00 44.60 ATOM 115 C GLN 52 53.333 46.320 33.132 1.00 44.60 ATOM 116 N THR 53 53.808 47.878 33.533 1.00 50.50 ATOM 117 CA THR 53 54.800 47.534 34.506 1.00 43.23 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 56.185 47.203 35.152 1.00 44.61	ATOM	84	0		49		43.055	24,369		
ATOM	ATOM	85	N	ARG	50	50.004				
ATOM 87 CB ARG 50 48.969 44.911 26.279 1.00 49.59 ATOM 88 CG ARG 50 48.547 45.537 24.950 1.00 54.03 ATOM 89 CD ARG 50 47.215 46.249 25.040 1.00 58.12 ATOM 90 NE ARG 50 46.685 46.573 23.713 1.00 64.32 ATOM 91 CZ ARG 50 46.426 45.669 22.767 1.00 66.71 ATOM 92 NH1 ARG 50 46.649 44.379 22.999 1.00 67.42 ATOM 93 NH2 ARG 50 46.649 44.379 22.999 1.00 66.71 ATOM 94 C ARG 50 50.45.639 46.051 21.589 1.00 66.06 ATOM 95 O ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 95 O ARG 50 50.195 43.066 28.321 1.00 48.18 ATOM 96 N PHE 51 51.974 44.313 27.773 1.00 42.53 ATOM 97 CA PHE 51 52.644 44.135 29.037 1.00 41.07 ATOM 98 CB PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 100 CD1 PHE 51 54.426 42.601 28.103 1.00 37.97 ATOM 101 CD2 PHE 51 54.451 42.526 26.704 1.00 37.97 ATOM 102 CE1 PHE 51 55.020 40.247 28.209 1.00 37.47 ATOM 103 CE2 PHE 51 55.049 40.183 26.810 1.00 37.64 ATOM 104 CZ PHE 51 55.049 40.183 26.810 1.00 41.27 ATOM 105 C PHE 51 52.334 46.490 29.342 1.00 41.29 ATOM 106 O PHE 51 52.334 46.490 29.342 1.00 41.29 ATOM 107 N GLN 52 52.414 45.232 31.182 1.00 41.27 ATOM 108 CA GLN 52 52.414 45.232 31.182 1.00 41.27 ATOM 109 CB GLN 52 52.414 45.232 31.182 1.00 41.27 ATOM 101 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 101 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 110 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.61 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 56.185 47.203 35.152 1.00 45.23	ATOM	86	CA							
ATOM 88 CG ARG 50 48.547 45.537 24.950 1.00 54.03 ATOM 89 CD ARG 50 47.215 46.249 25.040 1.00 58.12 ATOM 90 NE ARG 50 47.215 46.249 25.040 1.00 58.12 ATOM 91 CZ ARG 50 46.685 46.573 23.713 1.00 64.32 ATOM 92 NH1 ARG 50 46.6426 45.669 22.767 1.00 66.71 ATOM 93 NH2 ARG 50 46.649 44.379 22.999 1.00 67.42 ATOM 93 NH2 ARG 50 45.938 46.051 21.589 1.00 66.06 ATOM 94 C ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 95 O ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 96 N PHE 51 51.974 44.313 27.773 1.00 42.53 ATOM 97 CA PHE 51 52.644 44.135 29.037 1.00 41.07 ATOM 98 CB PHE 51 54.131 43.896 28.789 1.00 39.97 ATOM 99 CG PHE 51 54.431 43.59 28.846 1.00 38.27 ATOM 100 CD1 PHE 51 54.708 41.455 28.846 1.00 36.74 ATOM 101 CD2 PHE 51 55.049 40.183 26.810 1.00 37.47 ATOM 103 CE2 PHE 51 52.457 45.391 29.873 1.00 41.27 ATOM 106 O PHE 51 52.457 45.391 29.873 1.00 40.85 ATOM 107 N GLN 52 52.414 45.232 31.182 1.00 41.29 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 43.58 ATOM 109 CB GLN 52 49.766 46.687 31.707 1.00 41.29 ATOM 101 CD2 GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 102 CB GLN 52 52.414 45.232 31.182 1.00 41.29 ATOM 103 CB GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 110 CG GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.431 46.856 32.400 1.00 50.50 ATOM 114 C GLN 52 53.333 46.320 33.132 1.00 44.60 ATOM 115 N THR 53 53.808 47.486 33.533 1.00 44.60 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 44.60 ATOM 117 CA THR 53 54.772 48.930 35.152 1.00 45.23										
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ATOM 91 CZ ARG 50 46.426 45.669 22.767 1.00 66.71 ATOM 92 NH1 ARG 50 46.649 44.379 22.999 1.00 67.42 ATOM 93 NH2 ARG 50 45.938 46.051 21.589 1.00 66.06 ATOM 94 C ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 95 O ARG 50 50.800 43.765 27.518 1.00 48.18 ATOM 96 N PHE 51 51.974 44.313 27.773 1.00 42.53 ATOM 97 CA PHE 51 52.644 44.135 29.037 1.00 41.07 ATOM 98 CB PHE 51 54.131 43.896 28.789 1.00 39.97 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 100 CD1 PHE 51 54.4708 41.455 28.846 1.00 36.74 ATOM 101 CD2 PHE 51 54.451 42.526 26.704 1.00 37.97 ATOM 102 CE1 PHE 51 55.020 40.247 28.209 1.00 37.47 ATOM 103 CE2 PHE 51 55.049 40.183 26.810 1.00 37.64 ATOM 104 CZ PHE 51 52.457 45.391 29.873 1.00 40.85 ATOM 106 O PHE 51 52.457 45.391 29.873 1.00 41.27 ATOM 107 N GLN 52 52.414 45.232 31.182 1.00 41.27 ATOM 107 N GLN 52 52.414 45.232 31.182 1.00 41.27 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 41.29 ATOM 100 CB GLN 52 52.414 45.833 32.696 1.00 44.18 ATOM 110 CG GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.431 46.856 32.400 1.00 50.50 ATOM 113 NE2 GLN 52 53.373 45.241 33.589 1.00 44.66 ATOM 115 O GLN 52 53.373 45.241 33.589 1.00 44.66 ATOM 115 O GLN 52 53.373 45.241 33.589 1.00 44.66 ATOM 116 N THR 53 53.56.185 47.203 34.006 1.00 43.23 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.66 ATOM 118 CB THR 53 56.592 48.220 32.941 1.00 44.66 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.66 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.66 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.66 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.66 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.66 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.66										
ATOM 92 NH1 ARG 50 46.649 44.379 22.999 1.00 67.42 ATOM 93 NH2 ARG 50 45.938 46.051 21.589 1.00 66.06 ATOM 94 C ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 95 O ARG 50 50.800 43.765 27.518 1.00 45.72 ATOM 96 N PHE 51 51.974 44.313 27.773 1.00 42.53 ATOM 97 CA PHE 51 52.644 44.135 29.037 1.00 41.07 ATOM 98 CB PHE 51 54.131 43.896 28.789 1.00 39.97 ATOM 99 CG PHE 51 54.426 42.601 28.103 1.00 38.27 ATOM 100 CD1 PHE 51 54.426 42.601 28.103 1.00 37.97 ATOM 101 CD2 PHE 51 54.451 42.526 26.704 1.00 37.97 ATOM 102 CE1 PHE 51 55.020 40.247 28.209 1.00 37.47 ATOM 103 CE2 PHE 51 54.760 41.329 26.052 1.00 38.16 ATOM 104 CZ PHE 51 55.049 40.183 26.810 1.00 37.64 ATOM 105 C PHE 51 52.457 45.391 29.873 1.00 40.85 ATOM 106 O PHE 51 52.334 46.490 29.342 1.00 41.27 ATOM 107 N GLN 52 52.414 45.232 31.182 1.00 41.27 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 43.58 ATOM 100 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 110 CG GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.70 ATOM 113 NE2 GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 1101 CG GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.431 46.856 32.400 1.00 50.50 ATOM 113 NE2 GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 C GLN 52 53.333 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.60 ATOM 119 OG1 THR 53 56.185 47.203 34.056 1.00 44.61 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.61										
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ATOM 104 CZ PHE 51 55.049 40.183 26.810 1.00 37.64 ATOM 105 C PHE 51 52.457 45.391 29.873 1.00 40.85 ATOM 106 O PHE 51 52.334 46.490 29.342 1.00 41.29 ATOM 107 N GLN 52 52.414 45.232 31.182 1.00 41.27 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 43.58 ATOM 109 CB GLN 52 50.896 46.443 32.696 1.00 44.18 ATOM 110 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.183 47.878 33.037 1.00 50.70 ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61					51	55.020	40.247	28.209	1.00	37.47
ATOM 105 C PHE 51 52.457 45.391 29.873 1.00 40.85 ATOM 106 O PHE 51 52.334 46.490 29.342 1.00 41.29 ATOM 107 N GLN 52 52.414 45.232 31.182 1.00 41.27 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 43.58 ATOM 109 CB GLN 52 50.896 46.443 32.696 1.00 44.18 ATOM 110 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.183 47.878 33.037 1.00 50.70 ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61	MOTA	103	CE2	PHE	51	54.760	41.329	26.052	1.00	38.16
ATOM 106 O PHE 51 52.334 46.490 29.342 1.00 41.29 ATOM 107 N GLN 52 52.414 45.232 31.182 1.00 41.27 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 43.58 ATOM 109 CB GLN 52 50.896 46.443 32.696 1.00 44.18 ATOM 110 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.183 47.878 33.037 1.00 50.70 ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61				PHE	51	55.049	40.183	26.810	1.00	37.64
ATOM 107 N GLN 52 52.414 45.232 31.182 1.00 41.27 ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 43.58 ATOM 109 CB GLN 52 50.896 46.443 32.696 1.00 44.18 ATOM 110 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.183 47.878 33.037 1.00 50.70 ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23	MOTA	105	C	PHE	51	52.457	45.391	29.873	1.00	40.85
ATOM 108 CA GLN 52 52.279 46.383 32.052 1.00 43.58 ATOM 109 CB GLN 52 50.896 46.443 32.696 1.00 44.18 ATOM 110 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.183 47.878 33.037 1.00 50.70 ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23	ATOM	106	0	PHE	51	52.334	46.490	29.342	1.00	41.29
ATOM 109 CB GLN 52 50.896 46.443 32.696 1.00 44.18 ATOM 110 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.183 47.878 33.037 1.00 50.70 ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23	MOTA	107	N	GLN	52	52.414	45.232	31.182	1.00	41.27
ATOM 109 CB GLN 52 50.896 46.443 32.696 1.00 44.18 ATOM 110 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.183 47.878 33.037 1.00 50.70 ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23	MOTA	108	CA	GLN	52	52.279	46.383	32.052	1.00	43.58
ATOM 110 CG GLN 52 49.766 46.687 31.707 1.00 48.74 ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.183 47.878 33.037 1.00 50.70 ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 57.141 47.216 35.067 1.00 42.30 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23	ATOM	109	CB	GLN	52	50.896	46.443		1.00	44.18
ATOM 111 CD GLN 52 48.431 46.856 32.400 1.00 50.39 ATOM 112 OE1 GLN 52 48.183 47.878 33.037 1.00 50.70 ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 57.141 47.216 35.067 1.00 42.30 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23	ATOM	110	CG	GLN	52		46.687	31.707	1.00	48.74
ATOM 112 OE1 GLN 52 48.183 47.878 33.037 1.00 50.70 ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 57.141 47.216 35.067 1.00 42.30 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23	ATOM	111	CD	GLN	52	48.431				
ATOM 113 NE2 GLN 52 47.568 45.844 32.293 1.00 50.50 ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 57.141 47.216 35.067 1.00 42.30 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23	ATOM	112	OE1							
ATOM 114 C GLN 52 53.337 46.320 33.132 1.00 44.60 ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 57.141 47.216 35.067 1.00 42.30 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23										
ATOM 115 O GLN 52 53.733 45.241 33.589 1.00 45.28 ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 57.141 47.216 35.067 1.00 42.30 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23	ATOM		C							
ATOM 116 N THR 53 53.808 47.486 33.533 1.00 43.67 ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 57.141 47.216 35.067 1.00 42.30 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23										
ATOM 117 CA THR 53 54.800 47.534 34.569 1.00 44.06 ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 57.141 47.216 35.067 1.00 42.30 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23										
ATOM 118 CB THR 53 56.185 47.203 34.006 1.00 43.23 ATOM 119 OG1 THR 53 57.141 47.216 35.067 1.00 42.30 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23										
ATOM 119 OG1 THR 53 57.141 47.216 35.067 1.00 42.30 ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23										
ATOM 120 CG2 THR 53 56.592 48.220 32.941 1.00 44.61 ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23										
ATOM 121 C THR 53 54.772 48.930 35.152 1.00 45.23										
ATOM 144 0 IRK 55 54.016 49.787 34.691 1.00 44.70										
	ATOM	144	J	INK	33	34.016	49.787	34.691	1.00	44./0

ATOM	123	N	TRP	54	55.576	49.151	36.181	1.00	47.63
MOTA	124	CA	TRP	54	55.645	50.456	36.810		50.34
ATOM	125	CB	TRP	54	55.981	50.320	38.298		51.45
MOTA	126	CG	TRP	54	54.902	49.655	39.081		52.92
ATOM ATOM	127	CD2		54	53.642	50.224	39.453		53.70
ATOM	128 129	CE2		54	52.918	49.222	40.137		54.69
ATOM	130	CD1		54 54	53.053	51.484	39.274		54.86
ATOM	131	NE1		54	54.895 53.707	48.372 48.102	39.542 40.178	1.00	53.32 54.02
ATOM	132	CZ2		54	51.625	49.442	40.646		54.65
ATOM	133	CZ3		54	51.767	51.705	39.781		55.23
ATOM	134	CH2		54	51.069	50.685	40.458	1.00	
ATOM	135	С	TRP	54	56.713	51.277	36.115		51.83
ATOM	136	0	TRP	54	57.801	50.774	35.818		51.27
MOTA	137	N	ARG	55	56.392	52.539	35.849		53.95
MOTA	138	CA	ARG	55	57.334	53.435	35.196	1.00	55.48
MOTA	139	CB	ARG	55	56.845	54.888	35.269	1.00	57.33
ATOM	140	CG	ARG	55	57.920	55.930	34.944	1.00	59.98
ATOM	141	CD	ARG	55	57.374	57.366	34.962	1.00	63.12
ATOM	142	NE	ARG	55	56.782	57.761	36.245	1.00	65.32
ATOM	143	CZ	ARG	55	57.445	57.837	37.399	1.00	
ATOM ATOM	144		ARG	55	58.743	57.548	37.455	1.00	67.43
ATOM	145 146	NH2 C	ARG ARG	55 5.5	56.805	58.197	38.507	1.00	
ATOM	147	0	ARG	55 55	58.694 59.708	53.322	35.857	1.00	
ATOM	148	И	THR	56	58.718	53.352 53.174	35.179 37.177	1.00	55.46 54.45
ATOM	149	CA	THR	56	59.987	53.174	37.177	1.00	55.77
ATOM	150	CB	THR	56	59.808	53.316	39.423	1.00	
ATOM	151	OG1	THR	56	58.823	52.416	39.956	1.00	
ATOM	152	CG2	THR	56	59.374	54.758	39.685		56.34
ATOM	153	С	THR	56	60.720	51.757	37.672	1.00	56.39
MOTA	154	0	THR	56	61.926	51.676	37.898		56.38
MOTA	155	N	THR	57	59.998	50.726	37.234	1.00	56.80
ATOM	156	CA	THR	57	60.606	49.417	36.992	1.00	56.99
MOTA	157	CB	THR	57	59.542	48.353	36.599	1.00	56.50
ATOM	158	OG1	THR	57	58.491	48.346	37.569	1.00	57.90
ATOM	159	CG2	THR	57	60.163	46.958	36.541	1.00	55.26
ATOM	160	C	THR	57	61.614	49.536	35.851		57.27
ATOM	161	0	THR	57	62.736	49.027	35.929	1.00	55.68
ATOM ATOM	162 163	N	LEU	58	61.202	50.222	34.791		57.75
ATOM	164	CA CB	LEU	58 50	62.055	50.400	33.634	1.00	59.55
ATOM	165	CG	LEU	58 58	61.247	50.971	32.465	1.00	57.58
ATOM	166		LEU	58	60.010 59.507	50.183 50.742	32.022		56.39
ATOM	167		LEU	58	60.353	48.704	31.872		53.83
ATOM	168	C	LEU	58	63.213	51.328	33.959		62.01
ATOM	169	0	LEU	58	64.341	51.109	33.515		63.28
ATOM	170	N	GLU	59	62.933	52.355	34.755		64.08
MOTA	171	CA	GLU	59	63.940	53.338	35.122		66.29
ATOM	172	CB	GLU	59	63.279	54.473	35.896		66.26
ATOM	173	CG	GLU	59	62.090	55.047	35.163	1.00	67.32
ATOM	174	CD	GLU	59	61.496	56.259	35.848	1.00	68.99
ATOM	175		GLU	59	61.242	56.200	37.076	1.00	68.90
ATOM	176	OE2		59	61.274	57.273	35.147		69.85
ATOM	177	C	GLU	59	65.120	52.784	35.912		67.79
ATOM	178	0	GLU	59	66.098	53.492	36.139		68.37
ATOM ATOM	179	N	ARG	60	65.038	51.522	36.319		69.04
ATOM	180 181	CA CB	ARG	60 60	66.116	50.906	37.082		70.72
ATOM	182	CG	ARG ARG	60 60	65.651	49.579	37.688		71.87
ATOM	183	CD	ARG	60	64.544 63.980	49.740 48.411	38.708 39.147		73.32
ATOM	184	NE	ARG	60	62.973	48.586	40.189		75.03 77.17
		•			22.2.3			1.00	

ATOM	185	CZ	ARG	60	62.283	47.590	40.740	1.00	78.54
ATOM	186	NH1	ARG	60	62.486	46.339	40.345		78.65
ATOM	187	NH2	ARG	60	61.397	47.843	41.697	1.00	78.46
ATOM	188	С	ARG	60	67.346	50.674	36.218	1.00	71.31
MOTA	189	0	ARG	60	68.411	50.308	36.726	1.00	71.43
MOTA	190	N	TYR	61	67.201	50.890	34.914	1.00	71.73
ATOM	191	CA	TYR	61	68.313	50.695	33.994	1.00	72.66
ATOM	192	СВ	TYR	61	68.272	49.292	33.392	1.00	72.57
ATOM	193	CG	TYR	61	68.575	48.200	34.385	1.00	73.77
ATOM	194	CD1	TYR	61	69.880	47.975	34.824	1.00	73.63
ATOM	195	CE1	TYR	61	70.159	47.003	35.779	1.00	73.83
ATOM	196	CD2	TYR	61	67.551	47.419	34.927	1.00	73.93
ATOM	197	CE2	TYR	61	67.820	46.443	35.885	1.00	74.56
ATOM	198	CZ	TYR	61	69.126	46.242	36.307	1.00	74.41
ATOM	199	ОН	TYR	61	69.399	45.283	37.255	1.00	74.86
MOTA	200	С	TYR	61	68.341	51.709	32.871	1.00	73.44
ATOM	201	0	TYR	61	67.826	51.452	31.785	1.00	73.83
ATOM	202	N	PRO	62	68.929	52.889	33.121	1.00	74.36
MOTA	203	CD	PRO	62	69.331	53.456	34.419	1.00	74.45
ATOM	204	CA	PRO	62	68.99 7	53.905	32.070	1.00	74.56
ATOM	205	СВ	PRO	62	69.579	55.109	32.800	1.00	74.72
MOTA	206	CG	PRO	62	69.072	54.920	34.202	1.00	74.36
MOTA	207	С	PRO	62	69.941	53.353	31.013	1.00	74.64
ATOM	208	0	PRO	62	70.344	52.202	31.106	1.00	75.75
MOTA	209	N	ASP	63	70.295	54.161	30.021	1.00	74.48
MOTA	210	CA	ASP	63	71.204	53.738	28.948	1.00	74.84
MOTA	211	CB	ASP	63	72.556	53.267	29.523	1.00	75.88
MOTA	212	CG	ASP	63	72.587	51.773	29.815	1.00	77.77
MOTA	213	OD1	ASP	63	72.692	51.401	31.007	1.00	79.08
MOTA	214		ASP	63	72.506	50.970	28.854	1.00	78.37
MOTA	215	С	ASP	63	70.628	52.654	28.019	1.00	73.47
MOTA	216	0	ASP	63	71.003	52.586	26.840	1.00	74.20
MOTA	217	N	THR	64	69.741	51.803	28.542	1.00	70.48
MOTA	218	CA	THR	64	69.114	50.761	27.724	1.00	67.40
ATOM	219	CB	THR	64	68.687	49.535	28.554	1.00	66.93
ATOM	220	OG1	THR	64	67.589	49.891	29.396	1.00	
ATOM	221	CG2	THR	64	69.842	49.036	29.411	1.00	
MOTA	222	C	THR	64	67.866	51.393	27.119	1.00	65.32
ATOM	223	0	THR	64	67.282	52.300	27.703	1.00	
ATOM	224	N	LEU	65	67.456	50.916	25.953	1.00	63.11
ATOM	225	CA	LEU	65	66.295	51.469	25.269	1.00	60.88
ATOM	226	CB	LEU	65	65.885	50.522	24.141	1.00	60.61
ATOM	227	CG	LEU	65	64.995	51.050	23.014		60.66
ATOM	228		LEU	65	64.884	49.976	21.954		62.63
ATOM	229 230	CD2	LEU LEU	65 65	63.620	51.418 51.764	23.521		60.02 59.36
ATOM ATOM	231	0	LEU	65 65	65.092 64.588	52.888	26.177		58.80
MOTA	232	И	LEU	65 66	64.647	50.754	26.206		58.17
ATOM	233	CA	LEU	66	63.485	50.734	26.920 27.803		58.28
ATOM	234	CB	LEU	66	63.403	49.477	28.237		56.64
ATOM	235	CG	LEU	66	62.548	48.557	27.114		55.41
ATOM	236		LEU	66	62.291	47.169	27.678		53.95
ATOM	237		LEU	66	61.296	49.139	26.460		52.67
ATOM	238	C	LEU	66	63.653	51.746	29.043		58.89
ATOM	239	0	LEU	66	62.706	52.408	29.468		58.11
ATOM	240	N	GLY	67	64.846	51.726	29.632		59.32
ATOM	241	CA	GLY	67	65.099	52.532	30.813		60.19
ATOM	242	C	GLY	67	65.526	53.937	30.428		60.82
ATOM	243	0	GLY	67	65.957	54.725	31.272		61.20
ATOM	244	N	SER	68	65.402	54.240	29.138		60.66
ATOM	245	CA	SER	68	65.764	55.539	28.590		60.28
ATOM	246	CB	SER	68	66.749	55.388	27.440		59.39
						-			

MOTA	247	OG	SER	68		68.004	54.977	27.924	1.00 63.29
ATOM	248	С	SER	68		64.551	56.239	28.053	1.00 60.43
						63.424			
MOTA	249	0	SER	68			55.761	28.173	1.00 61.17
MOTA	250	N	THR	69		64.800	57.386	27.444	1.00 60.08
ATOM	251	CA	THR	69		63.736	58.160	26.845	1.00 59.06
ATOM	252	СВ	THR	69		64.055	59.662	26.873	1.00 59.73
MOTA	253	OG1	THR	69		65.371	59.882	26.339	1.00 60.24
ATOM	254	CG2	THR	69		63.968	60.195	28.309	1.00 59.10
ATOM	255	С	THR	69		63.619	57.691	25.410	1.00 57.91
	256	0	THR	69		62.745	58.145	24.676	1.00 57.87
MOTA									
ATOM	257	N	GLU	70		64.505	56.778	25.015	1.00 57.31
ATOM	258	CA	GLU	70		64.477	56.238	23.659	1.00 57.47
ATOM	259	CB	GLU	70		65.639	55.277	23.428	1.00 59.18
	260		GLU	70		66.994	55.915	23.540	1.00 63.22
ATOM		CG				-			
MOTA	261	CD	GLU	70		68.079	55.059	22.923	1.00 66.76
ATOM	262	OE1	GLU	70		68.230	53.889	23.341	1.00 68.38
ATOM	263	OE2	GLU	70		68.782	55.558	22.017	1.00 68.76
ATOM	264	С	GLU	70		63.166	55.507	23.388	1.00 55.73
MOTA	265	0	GLU	70		62.652	55.538	22.274	1.00 55.19
ATOM	266	N	LYS	71		62.628	54.842	24.404	1.00 54.75
ATOM	267	CA	LYS	71		61.369	54.133	24.230	1.00 54.14
ATOM	268	CB	LYS	71		60.958	53.437	25.537	1.00 54.23
ATOM	269	CG	LYS	71		60.710	54.362	26.719	1.00 53.85
MOTA	270	CD	LYS	71		60.034	53.603	27.859	1.00 52.55
ATOM	271	CE	LYS	71		59.957	54.423	29.141	1.00 51.71
ATOM	272	NZ	LYS	71		61.303	54.808	29.645	1.00 49.96
		C							1.00 43.30
ATOM	273		LYS	71		60.286	55,120	23.792	
ATOM	274	0	LYS	71		59.343	54.759	23.080	1.00 52.24
MOTA	275	N	GLU	72		60.448	56.373	24.205	1.00 52.94
ATOM	276	CA	GLU	72		59.501	57.436	23.881	1.00 53.32
ATOM	277	СВ	GLU	72		60.009	58.764	24.450	1.00 54.50
MOTA	278	CG	GLU	72		58.977	59.524	25.283	1.00 57.37
ATOM	279	CD	GLU	72		58.406	58.693	26.433	1.00 59.11
MOTA	280	OE1	GLU	72		57.161	58.564	26.505	1.00 59.34
ATOM	281	OE2	GLU	72		59.197	58.175	27.259	1.00 59.00
	282	C	GLU	72			57.592	22.388	1.00 52.40
ATOM						59.191			
ATOM	283	0	GLU	72		58.173	58.181	22.022	1.00 53.44
ATOM	284	N	PHE	73		60.056	57.064	21.527	1.00 51.08
MOTA	285	CA	PHE	73		59.848	57.155	20.081	1.00 50.78
ATOM	286	CB	PHE	73		61.192	57.089	19.351	1.00 50.26
ATOM	287	CG	PHE	73		62.085	58.255	19.637	1.00 49.79
MOTA	288	CD1		73		61.714	59.543	19.250	1.00 49.48
MOTA	289	CD2	PHE	73		63.285	58.079	20.322	1.00 50.37
ATOM	290	CE1	PHE	73		62.527	60.642	19.545	1.00 48.27
MOTA	291		PHE	73		64.109		20.625	1.00 50.17
ATOM	292	CZ	PHE	73		63.726	60.459	20.234	1.00 48.58
ATOM	293	С	PHE	73		58.938	56.046	19.572	1.00 50.85
ATOM	294	0	PHE	73	•	58.545	56.032	18.402	1.00 50.48
ATOM	295	N	PHE	74		58.623	55.110	20.463	1.00 50.91
ATOM	296	CA	PHE	74		57.760	53.982	20.141	1.00 50.99
MOTA	297	CB	PHE	74			52.681	20.672	1.00 48.73
ATOM	298	CG	PHE	74		59.623	52.276	19.956	1.00 46.56
ATOM	299	CD1	PHE	74		59.556	51.506	18.797	1.00 45.10
ATOM	300	CD2	PHE	74		60.866		20.391	1.00 44.31
ATOM	301		PHE	74		60.707		18.078	1.00 43.89
ATOM	302		PHE	74		62.024		19.679	1.00 43.63
MOTA	303	CZ	PHE	74		61.944		18.519	1.00 42.76
ATOM	304	С	PHE	74		56.427	54.249	20.805	1.00 52.87
ATOM	305	0	PHE	74		55.436		20.562	1.00 50.58
ATOM	306	N	PHE	75		56.413	55.278	21.646	1.00 55.76
ATOM	307	CA	PHE	75 75		55.201	55.649		1.00 55.76
ATOM	308	CB	PHE	75		55.500	56.647	23.460	1.00 60.98

ATOM	309	CG	PHE	75	54.327	56.914	24.355	1.00	62.93
ATOM	310	CD1	PHE	75	53.928	55.967	25.300		63.22
ATOM	311		PHE	75	53.621	58.113	24.261		62.80
ATOM	312		PHE	75	52.843	56.212	26.142	1.00	
ATOM	313	CE2	PHE	75	52.537	58.370	25.094		63.01
ATOM	314	CZ	PHE	75 75	52.146	57.418	26.039		63.85
ATOM	315	C	PHE	75	54.190	56.265	21.404		62.23
ATOM	316		PHE	75		57.200			
		0			54.500		20.669		63.07
ATOM	317	N	ASN	76	52.984	55.720	21.416		64.68
ATOM	318	CA	ASN	76	51.913	56.234	20.587		66.67
ATOM	319	CB	ASN	76	50.997	55.098	20.155	1.00	
ATOM	320	CG	ASN	76	49.830	55.586	19.341	1.00	
ATOM	321	OD1	ASN	76	49.263	56.638	19.636		66.78
ATOM	322	ND2	ASN	76	49.453	54.826	18.317		66.43
ATOM	323	С	ASN	76	51.151	57.224	21.470	1.00	68.71
ATOM	324	0	ASN	76	50.967	56.982	22.661	1.00	69.24
ATOM	325	N	GLU	77	50.713	58.339	20.897	1.00	70.45
ATOM	326	CA	GLU	77	50.002	59.344	21.678	1.00	72.19
ATOM	327	CB	GLU	77	50.310	60.747	21.137	1.00	74.36
MOTA	328	CG	GLU	77	51.596	61.358	21.691	1.00	76.69
ATOM	329	CD	GLU	77	51.472	61.742	23.162	1.00	79.10
ATOM	330	OE1	GLU	77	50.434	61.409	23.780	1.00	79.73
ATOM	331	OE2	GLU	77	52.411	62.374	23.703		80.26
ATOM	332	С	GLU	77	48.494	59.143	21.765		72.07
ATOM	333	0	GLU	77	47.878	59.534	22.760	1.00	
ATOM	334	N	ASP	78	47.897	58.538	20.738	1.00	
ATOM	335	CA	ASP	78	46.455	58.313	20.750	1.00	
ATOM	336	СВ	ASP	78	45.892	58.220	19.315		74.09
ATOM	337	CG	ASP	78	46.492	57.074	18.501	1.00	
ATOM	338	OD1		78 78	47.678	57.164			
MOTA	339		ASP	78 78			18.119		77.76
		C C			45.772	56.085	18.230		76.77
ATOM	340		ASP	78 70	46.029	57.093	21.583		70.92
ATOM	341	0	ASP	78	45.096	57.188	22.376		71.45
ATOM	342	N	THR	79	46.703	55.957	21.418		68.89
MOTA	343	CA	THR	79	46.361	54.769	22.198		66.93
MOTA	344	CB	THR	79	46.846	53.474	21.516		67.02
ATOM	345	OG1	THR	79	48.274	53.493	21.415		66.18
MOTA	346	CG2	THR	79	46.245	53.342	20.126	1.00	66.05
MOTA	347	С	THR	79	47.019	54.867	23.572		65.69
MOTA	348	0	THR	79	46.723	54.085	24.472	1.00	65.59
ATOM	349	N	LYS	80	47.914	55.840	23.715	1.00	64.28
MOTA	350	CA	LYS	80	48.642	56.092	24.958	1.00	63.28
MOTA	351	CB	LYS	80	47.685	56.585	26.046	1.00	65.55
MOTA	352	CG	LYS	80	46.909	57.841	25.681	1.00	68.59
MOTA	353	CD	LYS	80	45.989	58.256	26.823	1.00	71.40
ATOM	354	CE	LYS	80	44.998	59.321	26.383	1.00	72.80
ATOM	355	NZ	LYS	80	44.142	58.853	25.241		74.44
MOTA	356	С	LYS	80	49.432	54.898	25.486		60.94
MOTA	357	0	LYS	80	49.539	54.703	26.691		61.65
MOTA	358	N	GLU	81	49.992	54.105	24.581		58.53
ATOM	359	CA	GLU	81	50.784	52.934	24.955		55.25
MOTA	360	CB	GLU	81	49.930	51.664	24.850		55.98
ATOM	361	CG	GLU	81	49.207	51.556	23.518		57.85
ATOM	362	CD	GLU	81	48.430	50.263	23.341		60.26
ATOM	363		GLU	81	47.709	49.854	24.282		59.52
ATOM	364		GLU	81	48.529	49.670			
MOTA	365	C	GLU	81	51.984		22.239		60.66
ATOM	366	0	GLU	81		52.817	24.018		52.16
					51.926	53.249	22.866		50.02
ATOM	367	N	TYR	82	53.074	52.246	24.511		49.44
ATOM	368	CA	TYR	82	54.255	52.061	23.677		47.50
ATOM	369	CB	TYR	82	55.479	51.774	24.530		47.89
ATOM	370	CG	TYR	82	55.849	52.873	25.477	1.00	49.75

ATOM	371	CD1	TYR	82	55.374	52.881	26.784	1.00 49.95
ATOM	372	CE1	TYR	82	55.766	53.876	27.681	1.00 51.85
								1.00 50.36
MOTA	373	CD2	TYR	82	56.718	53.891	25.078	
MOTA	374	CE2	TYR	82	57.115	54.888	25.959	1.00 51.53
ATOM	375	CZ	TYR	82	56.640	54.876	27.259	1.00 52.93
ATOM	376	ОН	TYR	82	57.055	55.853	28.134	1.00 53.43
ATOM	377	С	TYR	82	54.027	50.868	22.760	1.00 45.30
ATOM	378	0	TYR	82	53.469	49.865	23.188	1.00 44.28
ATOM	379	N	PHE	83	54.431	50.973	21.498	1.00 43.88
	380		PHE	83	54.267	49.842	20.600	1.00 43.34
ATOM		CA						
ATOM	381	CB	PHE	83	53.347	50.169	19.428	1.00 41.69
ATOM	382	CG	PHE	83	53.003	48.961	18.605	1.00 43.65
ATOM	383	CD1	PHE	83	52.118	48.000	19.100	1.00 43.82
ATOM	384	CD2		83	53.654	48.712	17.399	1.00 42.56
MOTA	385	CE1	PHE	83	51.899	46.800	18.408	1.00 43.59
ATOM	386	CE2	PHE	83	53.446	47.520	16.699	1.00 42.94
ATOM	387	CZ	PHE	83	52.567	46.557	17.205	1.00 43.27
ATOM	388	С	PHE	83	55.608	49.337	20.061	1.00 43.66
MOTA	389	0	PHE	83	56.454	50.115	19.638	1.00 43.24
ATOM	390	N	PHE	84	55.791	48.021	20.098	1.00 44.42
MOTA	391	CA	PHE	84	57.007	47.372	19.618	1.00 44.29
ATOM	392	СВ	PHE	84	57.807	46.836	20.798	1.00 43.29
MOTA	393	CG	PHE	84	58.392	47.902	21.668	1.00 43.58
ATOM	394	CD1	PHE	84	59.529	48.595	21.270	1.00 44.09
ATOM	395	CD2	PHE	84	57.812	48.208	22.903	1.00 44.98
MOTA	396	CE1	PHE	84	60.091	49.583	22.095	1.00 44.01
ATOM	397	CE2	PHE	84	58.358	49.188	23.735	1.00 44.34
MOTA	398	CZ	PHE	84	59.502	49.878	23.332	1.00 43.58
MOTA	399	C	PHE	84	56.659	46.218	18.685	1.00 44.88
MOTA	400	0	PHE	84	55.971	45.274	19.085	1.00 44.42
ATOM	401	N	ASP	85	57.133	46.297	17.444	1.00 46.48
MOTA	402	CA	ASP	85	56.889	45.247	16.449	1.00 47.88
MOTA	403	CB	ASP	85	56.928	45.853	15.043	1.00 49.11
MOTA	404	CG	ASP	85	56.157	45.023	14.015	1.00 53.94
ATOM	405	OD1	ASP	85	55.306	44.190	14.408	1.00 55.67
ATOM	406	OD2		85	56.387		12.798	1.00 56.62
						45,222		
MOTA	407	С	ASP	85	57.978	44.176	16.606	1.00 47.44
MOTA	408	0	ASP	85	58.716	43.872	15.667	1.00 48.27
ATOM	409	N	ARG	86	58.070	43.619	17.812	1.00 46.05
ATOM	410	CA	ARG	86	59.071	42.608	18.145	1.00 45.60
ATOM	411	CB	ARG	86	60.029	43.145	19.209	1.00 47.86
MOTA	412	CG	ARG	86	60.520	44.548	18.960	1.00 50.28
MOTA	413	CD	ARG	86	61.433	44.610	17.757	1.00 51.97
ATOM	414	NE	ARG	86	62.671	43.875	17.977	1.00 53.65
ATOM	415	CZ	ARG	86	63.752	44.003	17.213	1.00 55.14
			ARG					
MOTA	416			86	63.742		16.184	1.00 55.40
MOTA	417		ARG	86	64.842	43.292	17.474	1.00 55.06
ATOM	418	С	ARG	86	58.430	41.356	18.707	1.00 44.07
MOTA	419	0	ARG	86	57.220	41.303	18.903	1.00 44.04
ATOM	420	N	ASP	87	59.266		18.988	1.00 42.89
MOTA	421	CA	ASP	87	58.829		19.573	1.00 41.09
ATOM	422	CB	ASP	87	59.971	38.078	19.529	1.00 43.03
MOTA	423	CG	ASP	87	59.678	36.833	20.350	1.00 46.61
MOTA	424	OD1	ASP	87	58.662	36.153	20.076	1.00 49.17
ATOM	425		ASP	87	60.465	36.531	21.275	1.00 48.42
MOTA	426	С	ASP	87	58.394	39.332	21.029	1.00 38.83
ATOM	427	0	ASP	87	59.158	39.823	21.847	1.00 36.58
MOTA	428	N	PRO	88	57.149	38.984	21.364	1.00 39.18
ATOM	429	CD	PRO	88	56.057		20.493	1.00 39.02
ATOM	430	CA	PRO	88	56.685	39.196	22.733	1.00 40.36
ATOM	431	CB	PRO					
				88	55.173	39.102	22.599	1.00 39.17
MOTA	432	CG	PRO	88	54.992	38.127	21.485	1.00 40.19

ATOM	433	C	PRO	88	57.242	38.253	23.790	1.00 43.06
MOTA	434	0	PRO	88	57.216	38.577	24.977	1.00 43.51
MOTA	435	N	GLU	89	57.764	37.101	23.373	1.00 46.23
MOTA	436	CA	GLU	89	58.304	36.144	24.334	1.00 48.70
								1.00 52.38
MOTA	437	CB	GLU	89	58.380	34.752	23.722	
MOTA	438	CG	GLU	89	58.493	33.666	24.783	1.00 60.05
MOTA	439	CD	GLU	89	57.253	33.595	25.681	1.00 64.01
MOTA	440	OE1	GLU	89	57.397	33.241	26.882	1.00 64.50
ATOM	441	OE2	GLU	89	56.137	33.881	25.178	1.00 64.30
ATOM	442	С	GLU	89	59.674	36.530	24.899	1.00 48.12
ATOM	443	0	GLU	89	59.919	36.375	26.096	1.00 48.45
		-				37.024	24.053	1.00 46.79
ATOM	444	N	VAL	90	60.573			
MOTA	445	CA	VAL	90	61.883	37.429	24.543	1.00 46.24
MOTA	446	CB	VAL	90	62.912	37.556	23.390	1.00 46.23
MOTA	447	CG1	VAL	90	64.200	38.216	23.892	1.00 46.75
MOTA	448	CG2	VAL	90	63.235	36.178	22.852	1.00 46.16
ATOM	449	С	VAL	90	61.723	38.762	25.271	1.00 45.27
ATOM	450	0	VAL	90	62.461	39.069	26.213	1.00 44.80
ATOM	451	N	PHE	91	60.758	39.564	24.837	1.00 43.80
	452	CA	PHE	91	60.523	40.820	25.523	1.00 43.18
ATOM								1.00 43.10
ATOM	453	CB	PHE	91	59.370	41.585	24.893	
ATOM	454	CG	PHE	91	59.012	42.821	25.647	1.00 43.07
ATOM	455	CD1	PHE	91	59.717	44.002	25.436	1.00 44.28
ATOM	456	CD2	PHE	91	58.024	42.787	26.625	1.00 42.21
ATOM	457	CE1	PHE	91	59.449	45.135	26.190	1.00 45.69
ATOM	458	CE2	PHE	91	57.748	43.912	27.389	1.00 44.59
ATOM	459	CZ	PHE	91	58.465	45.094	27.171	1.00 45.12
ATOM	460	C	PHE	91	60.165	40.481	26.980	1.00 42.61
MOTA	461	0	PHE	91	60.514	41.207	27.911	
MOTA	462	N	ARG	92	59.452	39.375	27.164	1.00 44.18
ATOM	463	CA	ARG	92	59.077	38.940	28.502	1.00 46.75
MOTA	464	CB	ARG	92	58.307	37.614	28.447	1.00 48.64
MOTA	465	CG	ARG	92	57.863	37.086	29.807	1.00 51.36
ATOM	466	CD	ARG	92	57.070	35.782	29.668	1.00 55.95
ATOM	467	NE	ARG	92	57.887	34.670	29.184	1.00 59.25
ATOM	468	CZ	ARG	92	58.842	34.074	29.895	1.00 62.25
ATOM	469	NH1		92	59.107	34.478	31.129	1.00 63.09
							29.377	1.00 64.82
ATOM	470	NH2		92	59.534	33.067		
ATOM	471	C	ARG	92	60.349	38.769	29.330	1.00 46.81
ATOM	472	0	ARG	92	60.422	39.233	30.462	1.00 46.46
ATOM	473	N	CYS	93	61.353	38.105	28.767	1.00 46.69
ATOM	474	CA	CYS	93	62.599	37.921	29.492	1.00 48.63
ATOM	475	CB	CYS	93	63.525	36.960	28.749	1.00 51.16
ATOM	476	SG	CYS	93	62.985	35.255	28.915	1.00 63.04
ATOM	477	С	CYS	93	63.311	39.238	29.746	1.00 46.44
ATOM	478	Ö	CYS	93	63.880	39.433	30.819	1.00 46.33
	479	N	VAL	94	63.280	40.140	28.767	1.00 44.87
ATOM	480	CA	VAL	94	63.923	41.440	28.927	1.00 44.26
MOTA	481	CB	VAL	94	63.870	42.279	27.621	1.00 44.57
MOTA	482		VAL	94	64.234	43.747	27.910	1.00 40.48
MOTA	483	CG2	VAL	94	64.828	41.682	26.586	1.00 42.87
ATOM	484	С	VAL	94	63.224	42.212	30.040	1.00 44.58
ATOM	485	0	VAL	94	63.874	42.767	30.927	1.00 44.35
ATOM	486	N	LEU	95	61.896	42.232	29.996	1.00 44.79
ATOM	487	CA	LEU	95	61.117	42.929	31.003	1.00 44.66
ATOM	488	CB	LEU	95	59.634	42.822	30.675	1.00 43.14
	489	CG						1.00 43.14
ATOM			LEU	95	58.671	43.599	31.567	
MOTA	490		LEU	95	59.141	45.065	31.718	1.00 40.90
MOTA	491		LEU	95	57.274	43.509	30.948	1.00 41.20
MOTA	492	С	LEU	95	61.381	42.364	32.391	1.00 46.49
MOTA	493	0	LEU	95	61.425	43.107	33.377	1.00 47.23
MOTA	494	N	ASN	96	61.565	41.051	32.477	1.00 47.13

MOTA	495	CA	ASN	96	61.822	40.440	33.769	1.00	
MOTA	496	CB	ASN	96	61.676	38.922	33.686		52.19
MOTA	497	CG	ASN	96	60.245	38.472	33.914	1.00	
ATOM	498	OD1	ASN	96	59.403	38.511	33.011		54.76
ATOM	499	ND2	ASN	96	59.955	38.068	35.145		58.18
ATOM	500	C	ASN	96	63.180	40.814	34.334		49.94
ATOM	501	0	ASN	96	63.360	40.843	35.554		49.19
ATOM	502	И	PHE	97	64.131	41.099	33.446 33.859		49.96 50.35
ATOM	503	CA	PHE	97 97	65.468 66.348	41.506 41.733	32.629		51.62
ATOM	504 505	CB CG	PHE PHE	97	67.596	42.526	32.913		52.11
ATOM ATOM	506	CD1	PHE	97	68.588	42.014	33.755		52.16
ATOM	507	CD2	PHE	97	67.764	43.798	32.364		52.05
ATOM	508	CE1	PHE	97	69.729	42.754	34.049		52.31
ATOM	509	CE2	PHE	97	68.903	44.551	32.649		53.04
ATOM	510	CZ	PHE	97	69.889	44.030	33.494		52.62
ATOM	511	C	PHE	97	65.349	42.804	34.667		49.93
ATOM	512	0	PHE	97	66.065	43.017	35.644	1.00	48.91
ATOM	513	N	TYR	98	64.430	43.665	34.251	1.00	49.49
MOTA	514	CA	TYR	98	64.207	44.925	34.938	1.00	50.34
ATOM	515	CB	TYR	98	63.304	45.836	34.108	1.00	50.24
ATOM	516	CG	TYR	98	63.979	46.438	32.905	1.00	50.63
MOTA	517	CD1	TYR	98	64.060	45.738	31.698		50.98
MOTA	518	CE1	TYR	98	64.684	46.298	30.581		51.91
MOTA	519	CD2	TYR	98	64.541	47.716	32.970		50.67
ATOM	520	CE2	TYR	98	65.166	48.287	31.862		51.48
ATOM	521	CZ	TYR	98	65.233	47.574	30.672		52.71
ATOM	522	ОН	TYR	98	65.841	48.142	29.579		55.26
ATOM	523	C	TYR	98	63.582	44.736	36.315		50.43
ATOM	524 525	O	TYR ARG	98 99	63.825 62.779	45.526 43.689	37.227 36.460		50.73
ATOM ATOM	526	N CA	ARG	99	62.779	43.395	37.722		51.75
ATOM	527	CB	ARG	99	60.866	42.527	37.467		51.73
ATOM	528	CG	ARG	99	59.750	43.233	36.755		50.10
ATOM	529	CD	ARG	99	58.846	42.250	36.057		48.25
ATOM	530	NE	ARG	99	57.638	42.929	35.613		48.41
ATOM	531	CZ	ARG	99	56.816	42.467	34.680		47.23
ATOM	532	NH1	ARG	99	57.071	41.317	34.076	1.00	46.58
MOTA	533	NH2	ARG	99	55.731	43.155	34.364	1.00	47.80
MOTA	534	С	ARG	99	62.966	42.678	38.743	1.00	52.77
MOTA	535	0	ARG	99	62.862	42.936	39.938		53.69
ATOM	536	N	THR	100	63.818	41.777	38.275		53.25
MOTA	537	CA	THR	100	64.643	40.996	39.178		53.48
MOTA	538	CB	THR	100	64.378	39.488	38.949		54.62
MOTA	539	OG1		100	64.950	39.074	37.700		55.54
MOTA	540	CG2	THR	100	62.877	39.227	38.906		54.99 53.45
MOTA MOTA	541 542	C	THR THR	100	66.147 66.891	41.247	39.108 39.978		53.43
ATOM	543	O N	GLY	101	66.598	41.960	38.085		53.39
ATOM	544	CA	GLY	101	68.021	42.205	37.955		52.22
ATOM	545	C	GLY	101	68.701	40.983	37.366		52.64
ATOM	546	0	GLY	101	69.900	40.998	37.104		52.67
ATOM	547	N	LYS	102	67.939	39.910	37.169		53.00
ATOM	548	CA	LYS	102	68.491	38.691	36.584		53.16
ATOM	549	СВ	LYS	102	68.087	37.456	37.391		54.41
ATOM	550	CG	LYS	102	68.702	37.332	38.780		57.24
ATOM	551	CD	LYS	102	67.875	38.065	39.841	1.00	59.87
ATOM	552	CE	LYS	102	68.259	37.617	41.252	1.00	60.24
ATOM	553	NZ	LYS	102	68.121	36.137			58.40
MOTA	554	С	LYS	102	68.005	38.512	35.141		52.43
MOTA	555	0	LYS	102	66.799	38.534	34.874		53.08
ATOM	556	N	LEU	103	68.944	38.352	34.212	1.00	49.93

ATOM	557	CA	LEU	103	68.591	38.145	32.816	1.00 47.95
ATOM	558		LEU	103	69.572	38.849	31.872	1.00 47.48
ATOM	559	CG	LEU	103	69.268	38.628	30.379	1.00 46.43
ATOM	560	CD1		103	67.884	39.170	30.057	1.00 43.47
ATOM	561	CD2		103	70.328	39.296	29.516	1.00 45.43
ATOM	562		LEU	103	68.651	36.655	32.583	1.00 46.50
	563		LEU	103	69.702	36.043	32.749	1.00 46.46
ATOM			HIS	104	67.518	36.073	32.213	1.00 45.24
ATOM	564			104	67.448	34.636	31.974	1.00 45.51
ATOM	565		HIS		66.209	34.030	32.646	1.00 42.06
MOTA	566		HIS	104			34.122	1.00 40.65
ATOM	567		HIS	104	66.152	34.257		1.00 41.67
MOTA	568	CD2		104	65.349	35.049	34.871	1.00 41.07
ATOM	569	ND1		104	67.006	33.635	35.005	1.00 39.22
MOTA	570	CE1		104	66.732	34.030	36.234	
MOTA	571	NE2		104	65.730	34.889	36.181	1.00 42.04
MOTA	572	C	HIS	104	67.387	34.339	30.495	1.00 45.93
ATOM	573	0	HIS	104	66.964	35.173	29.696	1.00 47.15
ATOM	574	N	TYR	105	67.823	33.144	30.137	1.00 46.46
MOTA	575	CA	TYR	105	67.784	32.716	28.758	1.00 49.54
ATOM	576	CB	TYR	105	69.145	32.163	28.312	1.00 50.37
ATOM	577	CG	TYR	105	69.079	31.487	26.965	1.00 50.94
ATOM	578	CD1	TYR	105	68.703	32.200	25.815	1.00 50.78
ATOM	579	CE1	TYR	105	68.540	31.556	24.581	1.00 49.31
ATOM	580	CD2	TYR	105	69.302	30.116	26.847	1.00 51.24
ATOM	581	CE2	TYR	105	69.142	29.464	25.617	1.00 51.35
ATOM	582	CZ	TYR	105	68.756	30.188	24.495	1.00 50.78
ATOM	583	OH	TYR	105	68.550	29.519	23.309	1.00 49.37
ATOM	584	C	TYR	105	66.731	31.621	28.647	1.00 51.42
			TYR	105	66.864	30.559	29.267	1.00 52.57
ATOM	585	0		106	65.645	31.877	27.894	1.00 52.80
ATOM	586	И	PRO			33.109	27.168	1.00 51.74
ATOM	587	CD	PRO	106	65.288		27.744	1.00 53.64
MOTA	588	CA	PRO	106	64.602	30.849		1.00 52.49
MOTA	589	CB	PRO	106	63.486	31.583	26.993	1.00 52.45
MOTA	590	CG	PRO	106	64.245	32.619	26.189	
ATOM	591	С	PRO	106	65.181	29.689	26.940	1.00 54.68
MOTA	592	0	PRO	106	65.553	29.862	25.784	1.00 53.16
MOTA	593	N	ARG	107	65.278	28.523	27.574	1.00 57.13
ATOM	594	CA	ARG	107	65.837	27.326	26.945	1.00 60.03
MOTA	595	CB	ARG	107	65.732	26.131	27.914	1.00 62.31
MOTA	596	CG	ARG	107	67.055	25.745	28.590	1.00 66.91
ATOM	597	CD	ARG	107	67.008	25.787	30.126	1.00 71.04
ATOM	598	NE	ARG	107	66.226	24.698	30.722	1.00 74.01
ATOM	599	CZ	ARG	107	66.076	24.514	32.036	1.00 75.70
ATOM	600	NH1	ARG	107	66.653	25.347	32.895	1.00 76.35
ATOM	601		ARG	107	65.351	23.500	32.501	1.00 75.94
ATOM	602	С	ARG	107	65.191	26.961	25.595	1.00 60.08
ATOM	603	0	ARG	107	65.866	26.512	24.664	1.00 60.26
ATOM	604	N	TYR	108	63.886	27.170	25.493	1.00 60.19
MOTA	605	CA	TYR	108	63.132	26.841	24.288	1.00 60.87
ATOM	606	CB	TYR	108	61.645	26.766	24.649	1.00 63.05
ATOM	607	CG	TYR	108	61.090	28.039	25.266	1.00 64.08
ATOM	608		TYR	108	60.712	29.115	24.466	1.00 64.51
			TYR	108	60.246	30.301	25.029	1.00 65.94
ATOM	609			108	60.984	28.179	26.655	1.00 65.34
ATOM	610	CD2			60.518	29.362	27.234	1.00 65.08
ATOM	611	CE2		108			26.413	1.00 65.00
ATOM	612	CZ	TYR	108	60.153	30.420		1.00 67.59
MOTA	613	OH	TYR	108	59.709	31.601	26.971	
MOTA	614	С	TYR	108	63.328	27.803	23.120	1.00 60.24
MOTA	615		TYR	108	62.895	27.528	22.001	
MOTA	616		GLU	109	63.987	28.926	23.367	
MOTA	617		GLU	109	64.181	29.909	22.311	
ATOM	618	CB	GLU	109	64.149	31.316	22.910	1.00 58.61

ATOM	619	CG	GLU	109	63.317	32.280	22.116	1.00	62.37
ATOM	620	CD	GLU	109	61.839	31.930	22.165	1.00	65.36
ATOM	621	OE1	GLU	109	61.472	30.775	21.843	1.00	67.39
ATOM	622		GLU	109	61.038	32.815	22.526	1.00	67.05
ATOM	623		GLU	109	65.462	29.733	21.494	1.00	54.46
ATOM	624	0	GLU	109	66.478	29.238	21.991	1.00	53.13
ATOM	625	N	CYS	110	65.398	30.136	20.230		51.50
	626	CA	CYS	110	66.557	30.064	19.360		48.47
ATOM					66.175	30.361	17.914		47.36
ATOM	627	CB	CYS	110			16.825		42.88
ATOM	628	SG	CYS	110	67.624	30.471	19.837		48.43
ATOM	629	C	CYS	110	67.566	31.103			
ATOM	630	0	CYS	110	67.260	32.291	19.936		47.85
MOTA	631	N	ILE	111	68.774	30.643	20.128		48.70
MOTA	632	CA	ILE	111	69.835	31.510	20.611		48.06
ATOM	633	CB	ILE	111	71.160	30.701	20.739		48.99
MOTA	634	CG2	ILE	111	71.829	30.565	19.364		48.17
MOTA	635	CG1	ILE	111	72.088	31.357	21.763		49.40
MOTA	636	CD1	ILE	111	72.594	32.724	21.357		52.11
MOTA	637	C	ILE	111	70.032	32.710	19.682		47.78
MOTA	638	0	ILE	111	70.345	33.813	20.133	1.00	48.92
MOTA	639	N	SER	112	69.829	32.494	18.386	1.00	47.11
MOTA	640	CA	SER	112	70.005	33.542	17.389	1.00	46.67
ATOM	641	CB	SER	112	69.990	32.928	15.989	1.00	47.65
ATOM	642	OG	SER	112	70.492	33.839	15.030	1.00	50.07
ATOM	643	С	SER	112	68.924	34.611	17.501	1.00	46.61
ATOM	644	0	SER	112	69.214	35.816	17.467	1.00	45.54
ATOM	645	N	ALA	113	67.676	34.168	17.626	1.00	44.95
ATOM	646	CA	ALA	113	66.559	35.094	17.768	1.00	43.86
ATOM	647	CB	ALA	113	65.240	34.335	17.747		42.09
ATOM	648	C	ALA	113	66.725	35.831	19.096		42.94
ATOM	649	0	ALA	113	66.416	37.016	19.212		42.65
		И		114	67.230	35.128	20.099		42.34
ATOM	650		TYR			35.736	21.401		43.06
ATOM	651	CA	TYR	114	67.422		22.392		38.95
ATOM	652	CB	TYR	114	67.881	34.673			38.35
ATOM	653	CG	TYR	114	68.069	35.167	23.810		
ATOM	654	CD1	TYR	114	66.974	35.424	24.636		37.02
MOTA	655	CE1	TYR	114	67.156	35.820	25.966		37.54
ATOM	656	CD2	TYR	114	69.351	35.324	24.345		38.50
MOTA	657	CE2	TYR	114	69.543	35.711	25.664		38.92
MOTA	658	CZ	TYR	114	68.447	35.958	26.470		38.80
MOTA	659	OH	TYR	114	68.650	36.339	27.776		38.92
MOTA	660	С	TYR	114	68.431	36.902	21.352		44.66
MOTA	661	0	TYR		68.182	37.970	21.918		43.33
MOTA	662	N	ASP	115	69.556	36.696	20.669		46.33
MOTA	663	CA	ASP	115	70.594		20.558		48.49
MOTA	664	CB	ASP	115	71.843	37.141	19.901		50.76
MOTA	665	CG	ASP	115	72.665	36.301	20.857		53.02
MOTA	666	OD1	ASP	115	73.495	35.494		1.00	55.36
ATOM	667	OD2	ASP	115	72.489	36.457	22.084		55.55
ATOM	668	C	ASP	115	70.143	38.951	19.784	1.00	49.03
ATOM	669	0	ASP	115	70.439	40.080	20.179	1.00	48.33
ATOM	670	N	ASP	116	69.444	38.731	18.674		49.96
ATOM	671	CA	ASP	116	68.940	39.832	17.866	1.00	51.54
MOTA	672	CB	ASP	116	68.097	39.308	16.704	1.00	53.49
ATOM	673	CG	ASP	116	68.924	38.595	15.647	1.00	57.74
ATOM	674	OD1	ASP	116	68.318	38.034	14.701	1.00	60.44
ATOM	675		ASP	116	70.175	38.596	15.753	1.00	58.73
ATOM	676	С	ASP	116	68.073	40.721	18.753		52.08
ATOM	677	0	ASP	116	68.228	41.944	18.771		52.26
ATOM	678	N	GLU	117	67.162	40.095	19.494		51.61
ATOM	679	CA	GLU	117	66.280		20.378		51.66
ATOM	680	CB	GLU	117	65.245	39.891	20.992		53.98
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ATOM	681	CG	GLU	117	64.287	39.252	19.977	1.00	57.64
ATOM	682	CD	GLU	117	63.516	40.270	19.131	1.00	59.95
ATOM	683	OE1	GLU	117	62.920	41.216	19.697	1.00	60.60
ATOM	684	OE2	GLU	117			17.891		61.99
					63.498	40.112			
MOTA	685	C	GLU	117	67.055	41.555	21.471		50.09
ATOM	686	0	GLU	117	66.830	42.738	21.702	1.00	50.17
MOTA	687	N	LEU	118	67.966	40.861	22.142	1.00	48.64
ATOM	688	CA	LEU	118	68.755	41.502	23.191	1.00	48.91
ATOM	689	СВ	LEU	118	69.869	40.570	23.696	1.00	48.08
ATOM	690	CG	LEU	118	69.530	39.473	24.711		48.83
ATOM	691		LEU	118			25.352		46.67
					70.817	38.950			
ATOM	692		LEU	118	68.609	40.038	25.779		48.84
ATOM	693	C	LEU	118	69.395	42.788	22.663		49.21
ATOM	694	0	LEU	118	69.328	43.844	23.306	1.00	48.05
ATOM	695	N	ALA	119	70.011	42.670	21.486	1.00	49.50
ATOM	696	CA	ALA	119	70.700	43.771	20.823	1.00	49.04
ATOM	697	CB	ALA	119	71.226	43.315	19.475	1.00	49.03
ATOM	698	С	ALA	119	69.808	44.986	20.647		48.11
ATOM	699	0	ALA	119	70.239	46.115	20.858		49.00
ATOM	700	N	PHE	120	68.561	44.756	20.265		47.39
ATOM	701	CA	PHE	120	67.622	45.853	20.076		46.90
MOTA	702	CB	PHE	120	66.301	45.308	19.532	1.00	46.52
MOTA	703	CG	PHE	120	65.176	46.300	19.566	1.00	49.14
ATOM	704	CD1	PHE	120	65.195	47.427	18.746	1.00	50.85
ATOM	705	CD2	PHE	120	64.093	46.109	20.416	1.00	48.82
ATOM	706	CE1	PHE	120	64.146	48.348	18.773	1.00	50.67
ATOM	707	CE2	PHE	120	63.041	47.020	20.449		50.34
ATOM	708	CZ	PHE	120	63.066	48.141	19.627		50.72
ATOM	709	C	PHE	120	67.363	46.638	21.369		46.48
ATOM	710	0	PHE	120	67.219	47.859	21.339		46.05
MOTA	711	N	TYR	121	67.315	45.936	22.497	1.00	46.01
ATOM	712	CA	TYR	121	67.039	46.562	23.787	1.00	47.31
MOTA	713	CB	TYR	121	66.360	45.553	24.726	1.00	46.25
MOTA	714	CG	TYR	121	65.034	45.049	24.206	1.00	45.13
ATOM	715	CD1	TYR	121	63.913	45.877	24.189	1.00	43.89
MOTA	716	CE1	TYR	121	62.699	45.431	23.680		44.00
ATOM	717	CD2	TYR	121	64.905	43.753	23.699		44.51
ATOM	718	CE2	TYR	121	63.686	43.793	23.184		43.46
ATOM	719	CZ	TYR	121	62.591	44,139	23.178		42.85
ATOM	720	ОН	TYR	121	61.385	43.714	22.667		42.00
ATOM	721	С	TYR	121	68.266	47.136	24.469	1.00	48.82
MOTA	722	0	TYR	121	68.179	47.597	25.602	1.00	48.46
ATOM	723	N	GLY	122	69.407	47.101	23.781	1.00	51.14
MOTA	724	CA	GLY	122	70.636	47.631	24.346	1.00	52.82
MOTA	725	C	GLY	122	71.112	46.867	25.569	1.00	55.54
MOTA	726	0	GLY	122	71.700	47.439	26.490		55.79
ATOM	727	N	ILE	123	70.851	45.566	25.584		57.10
ATOM	728	CA	ILE	123	71.264	44.730	26.699		58.82
ATOM	729	CB							
			ILE	123	70.058	43.980	27.298		59.22
ATOM	730	CG2		123	70.517	43.011	28.376		57.73
ATOM	731	CG1		123	69.065	44.990	27.875		58.76
ATOM	732	CD1		123.	67.754	44.379	28.276	1.00	59.03
MOTA	733	C	ILE	123	72.311	43.738	26.212	1.00	60.06
ATOM	734	0	ILE	123	72.124	43.056	25.203	1.00	60.05
ATOM	735	N	LEU	124	73.418	43.673	26.938		62.02
ATOM	736	CA	LEU	124	74.516	42.792	26.584		63.91
ATOM	737	СВ	LEU	124	75.827	43.406	27.087		63.78
ATOM	738	CG	LEU	124					
					76.890	43.787	26.044		64.64
ATOM	739	CD1		124	76.247	44.265	24.748		63.33
ATOM	740	CD2		124	77.790	44.861	26.638		63.81
ATOM	741	С	LEU	124	74.343	41.376	27.134		65.23
MOTA	742	0	LEU	124	74.057	41.190	28.318	1.00	64.84

ATOM	743	N	PRO	125	74.512	40.358	26.270	1.00	
ATOM	744	CD	PRO	125	74.860	40.475	24.843		67.66
ATOM	745	CA	PRO	125	74.380	38.948	26.654		68.14
MOTA	746	CB	PRO	125	74.816	38.203	25.395		67.95
ATOM	747	CG	PRO	125	74.418	39.133	24.301		68.25
MOTA	748	С	PRO	125	75.298	38.656	27.827		69.27
MOTA	749	0	PRO	125	75.085	37.720	28.594		70.01
ATOM	750	N	GLU	126	76.331	39.474	27.950		70.68
MOTA	751	CA	GLU	126	77.291	39.330	29.023		71.93
MOTA	752	CB	GLU	126	78.382	40.392	28.862		73.67
MOTA	753	CG	GLU	126	79.182	40.660	30.114		77.01
MOTA	754	CD	GLU	126	78.952	42.061	30.646		79.93
MOTA	755	OE1	GLU	126	79.379	42.347	31.789		80.66
ATOM	756	OE2	GLU	126	78.347	42.879	29.913		81.43
ATOM	757	C	GLU	126	76.617	39.433	30.398		71.49
ATOM	758	0	GLU	126	77.097	38.857	31.377		70.25
ATOM	759	N	ILE	127	75.497	40.147 40.296	30.473 31.750		69.58
ATOM	760	CA	ILE	127 127	74.804 73.982	40.296	31.750		69.69
MOTA	761	CB	ILE	127	74.780	42.767	31.260		69.20
ATOM	762 763	CG2 CG1	ILE	127	72.680	41.434	31.200		70.46
ATOM ATOM	764	CD1	ILE	127	71.706	42.533	31.315		72.33
ATOM	765	C	ILE	127	73.860	39.136	32.081	1.00	
ATOM	766	0	ILE	127	73.161	39.175	33.093		67.72
MOTA	767	N	ILE	128	73.822	38.116	31.228		67.98
ATOM	768	CA	ILE	128	72.972	36.963	31.491		67.62
ATOM	769	CB	ILE	128	73.127	35.881	30.383		67.49
ATOM	770	CG2	ILE	128	72.585	34.537	30.858		66.99
ATOM	771	CG1	ILE	128	72.381	36.331	29.124	1.00	66.94
ATOM	772	CD1	ILE	128	72.450	35.348	27.980	1.00	65.31
ATOM	773	C	ILE	128	73.393	36.400	32.850	1.00	67.43
ATOM	774	0	ILE	128	74.581	36.390	33.178	1.00	67.78
ATOM	775	N	GLY	129	72.417	35.956	33.641	1.00	66.66
ATOM	776	CA	GLY	129	72.711	35.420	34.959	1.00	66.32
ATOM	777	C	GLY	129	73.511	34.128	34.964	1.00	66.62
ATOM	778	0	GLY	129	73.537	33.389	33.976	1.00	65.58
MOTA	779	N	ASP	130	74.166	33.851	36.087	1.00	66.68
MOTA	780	CA	ASP	130	74.966	32.640	36.217	1.00	67.29
MOTA	781	CB	ASP	130	75.779	32.675	37.516		69.53
MOTA	782	CG	ASP	130	77.076	33.460	37.365		72.54
MOTA	783	OD1		130	77.946	33.008	36.579	1.00	73.65
MOTA	784	OD2	ASP	130	77.223	34.526	38.020		73.11
MOTA	785	C	ASP	130	74.085	31.402	36.176		65.80
ATOM	786	0	ASP	130	74.557	30.289	35.902		65.98
ATOM	787	N	CYS	131	72.797	31.603	36.434		63.80
ATOM	788	CA	CYS	131	71.845	30.505	36.418 37.134		61.72 60.65
MOTA	789 790	CB	CYS	131	70.556	30.923 32.505			58.77
ATOM	790	SG C	CYS CYS	131 131	69.856 71.545	30.067	36.581 34.990		60.92
ATOM ATOM	792	0	CYS	131	71.136	28.934	34.757		60.31
ATOM	793	N	CYS	132	71.766	30.964	34.034		61.16
ATOM	794	CA	CYS	132	71.503	30.661	32.631		62.22
MOTA	795	CB	CYS	132	70.426	31.604	32.078		60.61
ATOM	796	SG	CYS	132	68.737	31.289	32.637		54.79
ATOM	797	C	CYS	132	72.724	30.740	31.719		64.94
ATOM	798	0	CYS	132	72.724	30.740	30.585		64.43
ATOM	799	N	TYR	133	73.811	31.345	32.199		68.20
ATOM	800	CA	TYR	133	75.005	31.499			72.00
ATOM	801	СВ	TYR		76.116	32.231	32.133		75.99
ATOM	802	CG	TYR		76.759	33.344	31.316		80.69
ATOM	803		TYR		77.188	34.531	31.924		82.62
ATOM	804		TYR		77.731	35.583	31.166		84.61

ATOM	805	CD2	TYR	133	76.898	33.228	29.924	1.00	82.57
ATOM	806	CE2	TYR	133	77.442	34.269	29.157	1.00	84.20
MOTA	807	CZ	TYR	133	77.853	35.445	29.783	1.00	85.25
MOTA	808	OH	TYR	133	78.379	36.482	29.036	1.00	85.38
ATOM	809	C	TYR	133	75.532	30.188	30.814	1.00	72.30
MOTA	810	0	TYR	133	75.787	30.081	29.619	1.00	71.80
MOTA	811	N	GLU	134	75.698	29.194	31.676	1.00	73.49
ATOM	812	CA	GLU	134	76.179	27.894	31.232	1.00	74.86
ATOM	813	CB	GLU	134	76.037	26.862	32.357		77.54
ATOM	814	CG	GLU	134	76.790	27.196	33.643	1.00	81.48
ATOM	815	CD	GLU	134	78.293	26.972	33.533	1.00	83.66
ATOM	816	OE1		134	78.991	27.143	34.560	1.00	84.67
MOTA	817	OE2	GLU	134	78.773	26.629	32.428	1.00	84.35
ATOM	818	C	GLU	134	75.347	27.456	30.031	1.00	74.22
ATOM	819	O N	GLU	134	75.888	27.115	28.984	1.00	73.58
ATOM ATOM	820 821	N CA	GLU GLU	135 135	74.024 73.103	27.486	30.189 29.128	1.00	74.27
ATOM	822	CB	GLU	135		27.081 27.099	29.644	1.00	74.37
ATOM	823	CG	GLU	135	71.661 70.907	25.793	29.414	1.00	78.85
ATOM	824	CD	GLU	135	70.728	25.459	27.942	1.00	80.42
ATOM	825	OE1	GLU	135	70.728	24.309	27.626	1.00	80.72
ATOM	826	OE2	GLU	135	70.962	26.350	27.100	1.00	81.45
ATOM	827	C	GLU	135	73.209	27.955	27.880	1.00	73.40
ATOM	828	0	GLU	135	73.168	27.452	26.757	1.00	72.98
ATOM	829	N	TYR	136	73.340	29.262	28.079	1.00	71.95
ATOM	830	CA	TYR	136	73.459	30.192	26.967	1.00	71.34
ATOM	831	СВ	TYR	136	73.504	31.627	27.495	1.00	69.80
MOTA	832	CG	TYR	136	73.795	32.663	26.437	1.00	68.35
ATOM	833	CD1	TYR	136	74.993	33.374	26.442		68.86
MOTA	834	CE1	TYR	136	75.278	34.317	25.457	1.00	68.45
ATOM	835	CD2	TYR	136	72.884	32.922	25.422	1.00	68.19
ATOM	836	CE2	TYR	136	73.157	33.861	24.433	1.00	68.81
MOTA	837	CZ	TYR	136	74.357	34.554	24.453	1.00	68.70
MOTA	838	ОН	TYR	136	74.638	35.463	23.455	1.00	68.27
ATOM	839	С	TYR	136	74.697	29.914	26.118	1.00	71.99
MOTA	840	0	TYR	136	74.598	29.745	24.902	1.00	71.15
MOTA	841	N	LYS	137	75.857	29.856	26.765	1.00	73.64
ATOM	842	CA	LYS	137	77.118	29.619	26.068	1.00	75.77
MOTA	843	CB	LYS	137	78.290	29.711	27.050	1.00	77.33
MOTA	844	CG	LYS	137	78.610	31.149	27.469	1.00	79.51
ATOM	845	CD	LYS	137	79.617	31.224	28.619	1.00	81.70
MOTA	846	CE	LYS	137	81.029	30.811	28.200		82.86
ATOM	847	NZ	LYS	137	81.155	29.362	27.868		84.14
ATOM	848	С	LYS	137	77.181	28.309	25.294		76.22
ATOM ATOM	849 850	O N	LYS	137	77.830	28.239	24.248		76.42
ATOM	851	N CA	ASP ASP	138	76.510 76.505	27.274	25.794		76.57 77.38
ATOM	852	CB	ASP	138 138	75.917	25.989 24.886	25.102 25.988		78.23
ATOM	853	CG	ASP	138	76.981	24.000	26.790		79.67
ATOM	854	OD1		138	78.049	23.849	26.209		80.18
ATOM	855		ASP	138	76.747	23.871	27.989		80.17
ATOM	856	C	ASP	138	75.718	26.060	23.804		77.69
ATOM	857	0	ASP	138	76.169	25.570	22.773		77.72
MOTA	858	N	ARG	139	74.541	26.675	23.862		78.49
ATOM	859	CA	ARG	139	73.685	26.813	22.692		79.17
MOTA	860	CB	ARG	139	72.321	27.363	23.100		79.46
MOTA	861	CG	ARG	139	71.507	26.415	23.957		80.04
ATOM	862	CD	ARG	139	70.838	25.326	23.131		80.71
MOTA	863	NE	ARG	139	69.384	25.488	23.116		82.21
ATOM	864	CZ	ARG	139	68.723	26.341	22.336	1.00	82.42
MOTA	865		ARG	139	69.381	27.120	21.485	1.00	84.27
MOTA	866	NH2	ARG	139	67.401	26.427	22.413	1.00	81.32

ATOM	867	С	ARG	139	74.313	27.728	21.656	1.00 79.94
ATOM	868	0	ARG	139	74.060	27.588	20.461	1.00 79.75
ATOM	869	N	LYS	140	75.130	28.667	22.116	1.00 81.05
ATOM	870	CA	LYS	140	75.790	29.593	21.211	1.00 83.03
ATOM	871	CB	LYS	140	76.329	30.794	21.985	1.00 83.00
ATOM	872	CG	LYS	140	76.808	31.911	21.086	1.00 83.12
ATOM	873	CD	LYS	140	77.093	33.172	21.866	1.00 83.96
ATOM	874	CE	LYS	140	77.233	34.343	20.917	1.00 84.30
ATOM	875	NZ	LYS	140	76.038	34.419	20.024	1.00 84.69
ATOM	876	C	LYS	140	76.935	28.884	20.497	1.00 84.77
ATOM	877	0	LYS	140	77.261	29.188	19.349	1.00 84.82
ATOM	878	N	ARG	141	77.542	27.935	21.197	1.00 86.87
ATOM	879	CA	ARG	141	78.648	27.156	20.666	1.00 88.75
ATOM	880	СВ	ARG	141	79.261	26.335	21.798	1.00 89.45
ATOM	881	CG	ARG	141	80.468	25.498	21.432	1.00 90.78
ATOM	882	CD	ARG	141	80.978	24.812	22.683	1.00 92.49
ATOM	883	NE	ARG	141	80.908	25.727	23.824	1.00 94.11
ATOM	884	CZ	ARG	141	81.376	25.462	25.040	1.00 94.75
ATOM	885	NH1	ARG	141	81.961	24.297	25.294	1.00 95.31
ATOM	886	NH2	ARG	141	81.258	26.366	26.006	1.00 94.74
ATOM	887	C	ARG	141	78.131	26.233	19.565	1.00 89.89
ATOM	888	Ō	ARG	141	78.689	26.175	18.467	1.00 90.05
ATOM	889	N	GLU	142	77.053	25.518	19.867	1.00 90.80
ATOM	890	CA	GLU	142	76.458	24.596	18.912	1.00 92.46
ATOM	891	СВ	GLU	142	75.271	23.865	19.545	1.00 92.98
ATOM	892	CG	GLU	142	75.456	23.498	21.012	1.00 94.59
ATOM	893	CD	GLU	142	76.672	22.614	21.269	1.00 96.09
ATOM	894	OE1		142	76.982	22.371	22.458	1.00 96.62
ATOM	895	OE2	GLU	142	77.314	22.160	20.291	1.00 96.72
ATOM	896	C	GLU	142	75.970	25.361	17.692	1.00 93.72
ATOM	897	Ö	GLU	142	75.843	24.799	16.607	1.00 94.11
ATOM	898	N	ASN	143	75.704	26.650	17.877	1.00 93.90
ATOM	899	CA	ASN	143	75.197	27.495	16.802	1.00 94.44
ATOM	900	CB	ASN	143	74.614	28.785	17.387	1.00 94.93
ATOM	901	CG	ASN	143	73.728	29.524	16.403	1.00 95.31
ATOM	902		ASN	143	72.651	29.043	16.040	1.00 96.12
ATOM	903	ND2	ASN	143	74.177	30.695	15.961	1.00 94.75
ATOM	904	C	ASN	143	76.237	27.848	15.743	1.00 94.73
ATOM	905	Ö	ASN	143	75.991	27.689	14.544	1.00 94.36
ATOM	906	N	LEU	144	77.394	28.335	16.184	1.00 95.33
ATOM	907	CA	LEU	144	78.454	28.721	15.261	1.00 96.13
ATOM	908	CB	LEU	144	79.648	29.309	16.031	1.00 95.43
ATOM	909	CG	LEU	144	80.381	28.497	17.108	1.00 95.18
ATOM	910		LEU	144	81.121	27.314	16.492	1.00 94.43
ATOM	911		LEU	144	81.365	29.412	17.828	1.00 94.66
ATOM	912	C	LEU	144	78.919	27.571	14.370	1.00 96.94
ATOM	913	ō	LEU	144	79.336	27.794	13.233	1.00 97.03
ATOM	914	N	GLU	145	78.831	26.343	14.876	1.00 97.84
ATOM	915	CA	GLU	145	79.264	25.174	14.113	1.00 98.91
ATOM	916	CB	GLU	145	79.479	23.982	15.052	1.00 98.78
ATOM	917	CG	GLU	145	78.215	23.204	15.376	1.00 99.24
ATOM	918	CD	GLU	145	78.435	22.157	16.452	1.00100.00
ATOM	919		GLU	145	77.545	21.297	16.636	1.00100.00
ATOM	920	OE2		145	79.492	22.201	17.120	1.00100.00
ATOM	921	C	GLU	145	78.281	24.785	13.002	1.00 99.41
ATOM	922	ō	GLU	145	77.242	25.472	12.846	1.00 99.68
ATOM	923	OXT		145	78.572	23.790	12.296	1.00 99.81
ATOM		ZN+2		300	68.380	31.824	34.750	1.00 60.11
ATOM	924	CB	GLN	1038	28.408	33.647	48.349	1.00 85.88
ATOM	925	CG	GLN	1038	29.202	34.524	49.328	1.00 87.19
MOTA	926	CD	GLN	1038	29.257	33.934	50.727	1.00 87.98
ATOM	927	OE1	GLN	1038	28.221	33.809	51.416	1.00 88.62
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MOTA	928	NE2	GLN	1038	30.470	33.560	51.164	1.00	88.26
MOTA	929	С	GLN	1038	30.058	33.915	46.469	1.00	84.68
MOTA	930	0	GLN	1038	30.990	34.282	47.217		84.19
MOTA	931	N	GLN	1038	27.637	33.319	46.002		84.63
ATOM	932	CA	GLN	1038	28.577	34.090	46.883		85.75
MOTA	933	N	ASP	1039	30.287	33.353	45.291		83.42
MOTA	934	CA	ASP	1039	31.656	33.160	44.862		81.48
ATOM	935	CB	ASP ASP	1039 1039	31.817	31.780 31.209	44.225		82.36 82.90
ATOM ATOM	936 9 3 7	CG	ASP	1039	33.214 34.090	31.209	44.423		82.87
ATOM	938		ASP	1039	33.436	30.034	44.058		83.34
ATOM	939	C	ASP	1039	32.084	34.250	43.884		80.14
ATOM	940	0	ASP	1039	31.457	34.446	42.838		80.54
ATOM	941	N	GLU	1040	33.146	34.967	44.245		77.44
ATOM	942	CA	GLU	1040	33.698	36.036	43.411	1.00	74.97
MOTA	943	CB	GLU	1040	34.483	37.047	44.255	1.00	76.16
MOTA	944	CG	GLU	1040	33.725	38.256	44.754	1.00	77.95
MOTA	945	CD	GLU	1040	34.588	39.118	45.671	1.00	79.88
MOTA	946		GLU	1040	34.137	40.213	46.077		80.83
MOTA	947		GLU	1040	35.721	38.693	45.995		80.59
ATOM	948	C	GLU	1040	34.662	35.483	42.374		71.97
MOTA	949	0	GLU	1040	35.345	34.481	42.598		70.86
MOTA	950	N	LEU	1041	34.716	36.160	41.238		68.20
ATOM	951	CA	LEU	1041	35.632	35.786	40.184		64.88
ATOM	952 953	CB	LEU	1041	34.899	35.677	38.852		63.27
ATOM ATOM	953 954	CG	LEU	1041 1041	35.713 36.208	35.001 33.639	37.755 38.232		62.61
ATOM	955		LEU	1041	34.853	34.854	36.525		61.86
ATOM	956	C	LEU	1041	36.608	36.951	40.172		63.13
ATOM	957	0	LEU	1041	36.317	38.003	39.599		63.03
ATOM	958	N	ILE	1042	37.749	36.784	40.839		61.01
ATOM	959	CA	ILE	1042	38.724	37.865	40.897		58.63
ATOM	960	CB	ILE	1042	39.527	37.880	42.233		59.41
MOTA	961	CG2	ILE	1042	38.585	37.789	43.423	1.00	59.89
MOTA	962	CG1	ILE	1042	40.487	36.708	42.299	1.00	60.06
MOTA	963	CD1	ILE	1042	41.423	36.818	43.488	1.00	61.44
MOTA	964	C	ILE	1042	39.700	37.829	39.732	1.00	56.16
MOTA	965	0	ILE	1042	39.967	36.775	39.144		55.10
MOTA	966	N	VAL	1043	40.209	39.013	39.406		52.49
MOTA	967	CA	VAL	1043	41.148	39.196	38.322		49.12
ATOM	968	CB	VAL	1043	40.715	40.359	37.416		48.58
ATOM	969		VAL	1043	41.867	40.763	36.488		46.91
ATOM	970		VAL	1043	39.497				45.49
ATOM ATOM	971 972	C 0	VAL VAL	1043 1043	42.545 42.766	39.474 40.393	38.842 39.633		47.65 47.29
ATOM	973	N	LEU	1043	43.487	38.656	38.399		46.24
ATOM	974	CA	LEU	1044	44.875	38.810	38.795		45.12
ATOM	975	CB	LEU	1044	45.428	37.467	39.278		45.84
ATOM	976	CG	LEU	1044	44.712	36.907	40.512		48.25
ATOM	977		LEU	1044	45.202	35.495	40.815		49.41
ATOM	978		LEU	1044	44.957	37.839	41.702		47.73
ATOM	979	C	LEU	1044	45.640	39.296	37.571		43.51
MOTA	980	0	LEU	1044	45.952	38.511	36.676	1.00	43.59
ATOM	981	N	ASN	1045	45.895	40.598	37.509	1.00	41.34
ATOM	982	CA	ASN	1045	46.632	41.167	36.390	1.00	40.32
MOTA	983	CB	ASN	1045	46.356	42.671	36.242		41.67
ATOM	984	CG	ASN	1045	47.075	43.275	35.040		44.28
ATOM	985		ASN	1045	48.158	42.819	34.655		43.67
ATOM	986		ASN	1045	46.480	44.308	34.443		44.35
ATOM	987	C	ASN	1045	48.116	40.965	36.672		38.47
ATOM	988	O N	ASN	1045	48.699	41.650	37.519		37.95
MOTA	989	N	VAL	1046	48.737	40.029	35.974	1.00	35.67

ATOM	990	CA	VAL	1046	50.150	39.800	36.201	1.00 33.57
ATOM	991	CB	VAL	1046	50.451	38.311	36.420	1.00 34.19
ATOM	992	CG1	VAL	1046	51.951	38.120	36.672	1.00 32.26
ATOM	993	CG2	VAL	1046	49.587	37.761	37.562	1.00 31.05
ATOM	994	C	VAL	1046	50.937	40.271	34.996	1.00 33.72
ATOM	995	0	VAL	1046	50.856	39.660	33.913	1.00 31.36
MOTA	996	N	SER	1047	51.667	41.376	35.171	1.00 34.10
MOTA	997	CA	SER	1047	52.508	41.905	34.098	1.00 34.26
ATOM	998	CB	SER	1047	53.586	40.865	33.760	1.00 34.87
ATOM	999	OG	SER	1047	54.461	41.314	32.741	1.00 38.04
ATOM	1000	C	SER	1047	51.690	42.222	32.852	1.00 34.18
ATOM	1001	Ö	SER	1047	52.223	42.283	31.752	1.00 33.22
ATOM	1002	N	GLY	1048	50.389	42.419	33.027	1.00 34.89
MOTA	1003	CA	GLY	1048	49.541	42.707	31.889	1.00 35.40
ATOM	1004	C	GLY	1048	48.695	41.505	31.521	1.00 36.95
ATOM	1005	0	GLY	1048	47.646	41.675	30.899	1.00 37.80
ATOM	1006	N	ARG	1049	49.151	40.296	31.874	1.00 37.94
MOTA	1007	CA	ARG	1049	48.386	39.078	31.595	1.00 40.93
ATOM	1008	CB	ARG	1049	49.257	37.827	31.694	1.00 44.79
ATOM	1009	CG	ARG	1049	50.211	37.652	30.555	1.00 51.65
ATOM	1010	CD	ARG	1049	49.488	37.382	29.248	1.00 55.25
ATOM	1011	NE	ARG	1049	50.261	37.926	28.141	1.00 57.21
ATOM	1012	CZ	ARG	1049	50.270	39.211	27.797	1.00 59.24
MOTA	1013	NH1	ARG	1049	49.531	40.088	28.467	1.00 57.60
ATOM	1014	NH2	ARG	1049	51.043	39.624	26.794	1.00 60.83
ATOM	1015	С	ARG	1049	47.284	38.958	32.633	1.00 41.42
ATOM	1016	0	ARG	1049	47.561	38.950	33.845	1.00 39.63
ATOM	1017	N	ARG	1050	46.040	38.870	32.176	1.00 40.84
ATOM	1018	CA	ARG	1050				
					44.950	38.738	33.123	1.00 44.16
ATOM.	1019	CB	ARG	1050	43.744	39.570	32.677	1.00 47.43
ATOM	1020	CG	ARG	1050	44.061	41.076	32.722	1.00 55.30
MOTA	1021	CD	ARG	1050	42.814	41.956	32.798	1.00 60.47
MOTA	1022	NE	ARG	1050	43.146	43.365	33.027	1.00 64.97
MOTA	1023	CZ	ARG	1050	43.885	44.104	32.201	1.00 68.43
ATOM	1024	NHl	ARG	1050	44.377	43.571	31.088	1.00 70.13
ATOM	1025	NH2	ARG	1050	44.129	45.381	32.478	1.00 69.08
ATOM	1026	C	ARG	1050	44.562	37.289	33.363	1.00 42.77
MOTA	1027	0	ARG	1050	44.342	36.524	32.425	1.00 43.58
ATOM	1028	И	PHE	1051	44.528	36.922	34.642	1.00 41.01
MOTA	1029	CA	PHE	1051	44.156	35.581	35.083	1.00 40.35
ATOM	1030	CB	PHE	1051	45.270	34.971	35.934	1.00 39.21
MOTA	1031	CG	PHE	1051	46.524	34.701	35.179	1.00 39.30
ATOM	1032	CD1	PHE	1051	46.719	33.472	34.553	1.00 39.13
MOTA	1033		PHE	1051	47.515	35.678	35.079	1.00 40.84
ATOM	1034		PHE	1051	47.887	33.207	33.835	1.00 38.86
ATOM	1035		PHE	1051	48.691			1.00 41.02
						35.433	34.364	
ATOM	1036	CZ	PHE	1051	48.878	34.185	33.738	1.00 40.47
MOTA	1037	С	PHE	1051	42.920	35.737	35.943	1.00 39.80
MOTA	1038	0	PHE	1051	42.789	36.717	36.665	1.00 38.12
ATOM	1039	N	GLN	1052	42.007	34.787	35.860	1.00 41.63
MOTA	1040	CA	GLN	1052	40.810	34.851	36.675	1.00 43.97
ATOM	1041	CB	GLN	1052	39.569	35.128	35.843	1.00 42.45
MOTA	1042	CG	GLN	1052	39.613	36.433	35.121	1.00 44.21
ATOM	1043	CD	GLN	1052	38.312	36.720	34.434	1.00 44.71
ATOM	1044		GLN	1052				
					37.416	37.322	35.018	1.00 45.99
ATOM	1045		GLN	1052	38.187	36.272	33.188	1.00 45.20
ATOM	1046	C	GLN	1052	40.626	33.539	37.382	1.00 46.21
MOTA	1047	O	GLN	1052	40.836	32.473	36.804	1.00 48.15
MOTA	1048	И	THR	1053	40.231	33.626	38.641	1.00 48.28
MOTA	1049	CA	THR	1053	39.989	32.448	39.448	1.00 50.63
MOTA	1050	CB	THR	1053	41.295	31.932	40.110	1.00 50.02
ATOM	1051		THR	1053	41.063	30.630	40.656	1.00 50.57
						30.000		

MOTA	1052	CG2	THR	1053	41.739	32.857	41.230	1.00	48.49
ATOM	1053	С	THR	1053	38.985	32.855	40.518	1.00	52.85
ATOM	1054	0	THR	1053	38.785	34.051	40.778	1.00	52.89
ATOM	1055	N	TRP	1054	38.352	31.861	41.133	1.00	54.32
ATOM	1056	CA	TRP	1054	37.379	32.125	42.177		55.13
ATOM	1057	СВ	TRP	1054	36.490	30.902	42.375	1.00	53.53
ATOM	1058	CG	TRP	1054	35.712	30.541	41.152	1.00	
ATOM	1059	CD2	TRP	1054	34.547	31.204	40.663	1.00	51.08
ATOM	1060	CE2	TRP	1054	34.151	30.537	39.482	1.00	51.32
ATOM	1061	CE3	TRP	1054	33.800			1.00	
ATOM	1062	CD1	TRP			32.304	41.104		51.90
				1054	35.973	29.523	40.274	1.00	51.71
ATOM	1063	NE1	TRP	1054	35.036	29.512	39.267	1.00	
MOTA	1064	CZ2	TRP	1054	33.035	30.933	38.740		52.71
MOTA	1065	CZ3	TRP	1054	32.686	32.700	40.364	1.00	52.01
ATOM	1066	CH2	TRP	1054	32.317	32.016	39.193	1.00	52.64
ATOM	1067	С	TRP	1054	38.083	32.475	43.481	1.00	
MOTA	1068	0	TRP	1054	39.105	31.878	43.822	1.00	56.36
MOTA	1069	N	ARG	1055	37.544	33.458	44.196	1.00	59.18
MOTA	1070	CA	ARG	1055	38.116	33.868	45.472	1.00	62.20
MOTA	1071	CB	ARG	1055	37.182	34.864	46.169	1.00	64.91
ATOM	1072	CG	ARG	1055	37.684	35.317	47.520	1.00	68.74
ATOM	1073	CD	ARG	1055	36.760	36.343	48.152	1.00	73.15
ATOM	1074	NE	ARG	1055	35.532	35.767	48.710	1.00	77.04
ATOM	1075	CZ	ARG	1055	34.413	35.531	48.022	1.00	78.94
ATOM	1076	NH1	ARG	1055	34.342	35.815	46.729		79.88
ATOM	1077	NH2	ARG	1055	33.347	35.026	48.633	1.00	79.28
ATOM	1078	С	ARG	1055	38.290	32.625	46.339	1.00	
MOTA	1079	0	ARG	1055	39.195	32.538	47.168		61.61
ATOM	1080	N	THR	1056	37.392	31.669	46.116	1.00	62.73
ATOM	1081	CA	THR	1056	37.362	30.389	46.821		63.13
ATOM	1082	CB	THR	1056	36.210	29.502	46.294		
ATOM	1083	OG1	THR	1056	34.960				64.09
ATOM	1084	CG2	THR	1056		30.036	46.748	1.00	64.78
ATOM	1085	C	THR		36.397	28.047	46.731		63.58
ATOM				1056	38.661	29.627	46.610	1.00	62.88
	1086	0	THR	1056	39.292	29.177	47.567		62.96
ATOM	1087	N	THR	1057	39.046	29.483	45.346	1.00	61.85
ATOM	1088	CA	THR	1057	40.257	28.769	44.988	1.00	61.21
ATOM	1089	CB	THR	1057	40.514	28.821	43.464	1.00	61.05
ATOM	1090	OG1	THR	1057	39.324	28.439	42.764		60.64
MOTA	1091	CG2	THR	1057	41.639	27.870	43.087	1.00	59.52
ATOM	1092	C	THR	1057	41.473	29.332	45.707	1.00	61.89
ATOM	1093	0	THR	1057	42.304	28.578	46.218	1.00	61.24
MOTA	1094	N	LEU	1058	41.581	30.656	45.758		62.10
MOTA	1095	CA	LEU	1058	42.736	31.278	46.401		63.18
MOTA	1096	CB	LEU	1058	42.791	32.777	46.100	1.00	61.56
MOTA	1097	CG	LEU	1058	43.132	33.159	44.662	1.00	61.38
MOTA	1098		LEU	1058	43.377	34.648	44.589	1.00	60.19
MOTA	1099	CD2	LEU	1058	44.369	32.402	44.198	1.00	61.08
MOTA	1100	C	LEU	1058	42.763	31.068	47.901	1.00	65.06
MOTA	1101	0	LEU	1058	43.839	31.000	48.507	1.00	64.97
ATOM	1102	N	GLU	1059	41.583	30.947	48.500	1.00	67.41
MOTA	1103	CA	GLU	1059	41.495	30.754	49.940	1.00	69.28
MOTA	1104	CB	GLU	1059	40.101	31.134	50.423	1.00	70.55
MOTA	1105	CG	GLU	1059	39.890	32.638	50.463		73.05
MOTA	1106	CD	GLU	1059	38.429	33.022	50.537		74.89
MOTA	1107	OE1	GLU	1059	38.136	34.232	50.699		75.70
MOTA	1108	OE2		1059	37.576	32.113	50.421		75.75
MOTA	1109	С	GLU	1059	41.861	29.355	50.414		69.17
MOTA	1110	0	GLU	1059	42.138	29.163	51.592		69.42
ATOM	1111	N	ARG	1060	41.880	28.386	49.505		69.79
ATOM	1112	CA	ARG	1060	42.237	27.021	49.866		70.63
ATOM	1113	СВ	ARG	1060	42.274	26.135	48.628		70.47
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MOTA	1114	CG	ARG		40.943	25.904	47.962	1.00	70.36
ATOM	1115	CD	ARG	1060	41.151	25.043	46.741	1.00	71.14
ATOM	1116	NE	ARG	1060	39.915	24.805	46.012	1.00	72.75
ATOM	1117	CZ	ARG	1060	39.857	24.182	44.840	1.00	74.02
ATOM	1118	NH1	ARG	1060	40.969	23.737	44.266	1.00	74.72
ATOM	1119	NH2	ARG	1060	38.688	24.003	44.239	1.00	75.21
ATOM	1120	С	ARG	1060	43.597	26.961	50.552	1.00	72.01
ATOM	1121	0	ARG	1060	43.869	26.050	51.333	1.00	72.23
ATOM	1122	N	TYR	1061	44.459	27.925	50.250	1.00	
ATOM	1123	CA	TYR	1061	45.784	27.954	50.852	1.00	74.58
ATOM	1124	CB	TYR	1061	46.865	27.607	49.820	1.00	74.41
MOTA	1125	CG	TYR	1061	46.697	26.246	49.207		74.49
MOTA	1126	CD1	TYR	1061	45.729	26.016	48.230	1.00	
MOTA	1127	CE1	TYR	1061	45.519	24.742	47.709	1.00	
MOTA	1128	CD2	TYR	1061	47.461	25.170	49.646	1.00	
MOTA	1129	CE2	TYR	1061	47.261	23.890	49.134	1.00	75.48
ATOM	1130	CZ	TYR	1061	46.288	23.685	48.169	1.00	
ATOM	1131	ОН	TYR	1061	46.080	22.423	47.674	1.00	
MOTA	1132	С	TYR	1061	46.111	29.300	51.469	1.00	
MOTA	1133	0	TYR	1061	46.630	30.189	50.795	1.00	75.99
MOTA	1134	N	PRO	1062	45.792	29.478	52.758		76.75
ATOM	1135	CD	PRO	1062	45.035	28.577	53.646		77.26
MOTA	1136	CA	PRO	1062	46.088	30.748	53.427	1.00	77.48
MOTA	1137	CB	PRO	1062	45.228	30.679	54.682	1.00	77.39
ATOM	1138	CG	PRO	1062	45.245	29.213	55.002	1.00	
ATOM	1139	С	PRO	1062	47.586	30.756	53.730		78.06
MOTA	1140	0	PRO	1062	48.280	29.793	53.406		79.05
MOTA	1141	N	ASP	1063	48.079	31.824	54.345	1.00	77.95
MOTA	1142	CA	ASP	1063	49.502	31.956	54.676	1.00	
MOTA	1143	CB	ASP	1063	50.040	30.682	55.351		80.09
ATOM	1144	CG	ASP	1063	50.802	29.780	54.390		82.22
MOTA	1145	OD1	ASP	1063	51.829	30.225	53.825		83.44
ATOM	1146	OD2	ASP	1063	50.375	28.620	54.203		83.23
ATOM	1147	С	ASP	1063	50.339	32.285	53.434		77.65
MOTA	1148	0	ASP	1063	51.438	32.841	53.544		78.70
MOTA	1149	N	THR	1064	49.832	31.923	52.256	1.00	75.10
MOTA	1150	CA	THR	1064	50.525	32.232	51.006		72.43
ATOM	1151	CB	THR	1064	50.102	31.297	49.865		71.56
MOTA	1152	OG1	THR	1064	48.689	31.413	49.662		71.11
ATOM	1153	CG2	THR	1064	50.453	29.857	50.192	1.00	70.28
MOTA	1154	С	THR	1064	50.074	33.644	50.664	1.00	71.07
ATOM	1155	0	THR	1064	49.020	34.081	51.122	1.00	71.42
ATOM	1156	N	LEU	1065	50.851	34.360	49.860		69.42
ATOM	1157	CA	LEU	1065	50.482	35.728	49.515		67.33
MOTA	1158	CB	LEU	1065	51.570	36.365	48.639		66.52
MOTA	1159	CG	LEU	1065	51.308	37.811	48.201		65.55
MOTA	1160	CD1	LEU	1065	52.599	38.613	48.197	1.00	64.74
MOTA	1161	CD2	LEU	1065	50.659	37.806	46.832		64.36
MOTA	1162	С	LEU	1065	49.114	35.865	48.841		66.46
MOTA	1163	0	LEU	1065	48.362	36.786	49.143		65.93
MOTA	1164	N	LEU	1066	48.776	34.946	47.946		66.07
ATOM	1165	CA	LEU	1066	47.503	35.034	47.243		66.33
MOTA	1166	CB	LEU	1066	47.554	34.208	45.959		64.88
MOTA	1167	CG	LEU	1066	48.388	34.843	44.847		64.16
MOTA	1168		LEU	1066	48.317	33.988	43.583		62.81
ATOM	1169	CD2	LEU	1066	47.863	36.250	44.585		61.88
ATOM	1170	C	LEU	1066	46.271	34.648	48.045		67.46
MOTA	1171	0	LEU	1066	45.177	35.144	47.776		67.47
MOTA	1172	N	GLY	1067	46.440	33.769	49.026		68.58
ATOM	1173	CA	GLY	1067	45.305	33.355	49.833		69.45
ATOM	1174	С	GLY	1067	45.267	33.977	51.217		69.67
MOTA	1175	0	GLY	1067	44.600	33.456	52.104		69.76

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ATOM	1176	N	SER	1068	45.973	35.089	51.402	1.00	70.12
ATOM	1177	CA	SER	1068	46.024	35.761	52.694	1.00	70.71
ATOM	1178								
		CB	SER	1068	47.219	35.259	53.498	1.00	70.76
ATOM	1179	OG	SER	1068	48.432	35.789	52.984	1.00	70.28
ATOM	1180	С	SER	1068	46.162	37.266	52.528	1.00	71.46
MOTA	1181	0	SER	1068	47.096	37.727	51.896	1.00	72.99
ATOM	1182	N	THR	1069	45.225	38.011	53.106	1.00	71.97
MOTA	1183	CA	THR	1069	45.178	39.477	53.078	1.00	72.07
ATOM	1184	CB	THR	1069	44.885	40.019	54.496	1.00	72.15
ATOM	1185	OG1	THR	1069	45.913	39.589	55.400	1.00	72.44
ATOM	1186	CG2	THR	1069	43.538	39.503			
							54.989	1.00	71.32
ATOM	1187	С	THR	1069	46.358	40.275	52.492	1.00	72.12
MOTA	1188	0	THR	1069	46.165	41.399	52.033	1.00	71.77
MOTA	1189	N	GLU	1070	47.571	39.726	52.534	1.00	72.67
ATOM	1190	CA	GLU	1070	48.742	40.399	51.965	1.00	73.64
ATOM	1191	CB	GLU	1070	49.926	39.439	51.848	1.00	75.83
MOTA	1192	CG	GLU	1070	50.673	39.116	53.118	1.00	79.98
ATOM	1193	CD	GLU	1070	51.977	38.377	52.825	1.00	82.50
ATOM	1194	OE1	GLU	1070	52.890	38.989	52.220	1 00	82.69
MOTA	1195	OE2	GLU	1070	52.086	37.183	53.186	1.00	84.45
MOTA	1196	С	GLU	1070	48.460	40.933	50.558	1.00	72.88
ATOM	1197	0	GLU	1070	48.818	42.064	50.230		72.44
ATOM	1198	N	LYS	1071	47.828	40.108	49.727	1.00	71.70
ATOM	1199	CA	LYS	1071	47.527	40.493	48.357	1.00	71.72
ATOM	1200	CB	LYS	1071	46.759	39.382	47.634	1 00	70.88
ATOM	1201	CG	LYS	1071	45.375	39.100	48.162	1.00	71.14
ATOM	1202	CD	LYS	1071	44.563	38.379	47.101	1.00	71.20
MOTA	1203	CE	LYS	1071	43.213	37.927	47.615	1.00	71.34
MOTA	1204	NZ	LYS	1071	43.327	36.780	48.555	1.00	71.38
MOTA	1205	C	LYS	1071	46.768	41.804	48.221	1.00	71.87
ATOM	1206	0	LYS	1071	46.738	42.392	47.144	1.00	72.20
MOTA	1207	N	GLU	1072	46.156	42.270	49.302	1.00	72.44
MOTA	1208	CA	GLU	1072	45.420	43.529	49.260	1.00	72.28
ATOM	1209	CB	GLU	1072	44.657	43.742	50.567	1.00	73.54
ATOM	1210	CG	GLU	1072	43.157	43.466	50.463	1.00	75.53
ATOM	1211	CD	GLU	1072	42.829	42.107	49.851	1.00	76.82
MOTA	1212	OE1	GLU	1072	43.185				
						41.061	50.449	1.00	76.51
ATOM	1213	OE2	GLU	1072	42.206	42.095	48.765	1.00	76.77
ATOM	1214	С	GLU	1072	46.386	44.680	49.015	1.00	71:72
ATOM	1215	0	GLU						
				1072	45.985	45.759	48.594	1.00	71.71
ATOM	1216	N	PHE	1073	47.663	44.432	49.271	1.00	71.61
MOTA	1217	CA	PHE	1073	48.709	45.427	49.068	1.00	72.73
ATOM	1218	СВ							
			PHE	1073	50.037	44.888	49.612	1.00	73.39
ATOM	1219	CG	PHE	1073	51.214	45.801	49.375	1.00	75.45
ATOM	1220	CD1	PHE	1073	51.551	46.787	50.304	1.00	75.32
ATOM	1221	CD2							
				1073	51.988	45.677	48.216		75.55
ATOM	1222	CE1	PHE	1073	52.645	47.637	50.083	1.00	75.72
ATOM	1223	CE2	PHE	1073	53.080	46.521	47.984		75.31
MOTA	1224	CZ	PHE	1073	53.409	47.502	48.920		75.60
ATOM	1225	C	PHE	1073	48.864	45.768	47.578	1.00	73.30
ATOM	1226	0	PHE	1073	49.384	46.829	47.230		73.40
MOTA	1227	N	PHE	1074	48.425	44.864	46.703	1.00	73.64
ATOM	1228	CA	PHE	1074	48.526	45.073	45.258	1.00	73.71
ATOM	1229	СВ	PHE	1074	49.240	43.902	44.568		69.98
ATOM	1230	CG	PHE	1074	50.423	43.374	45.318	1.00	66.10
ATOM	1231	CD1	PHE	1074	50.248	42.586	46.449	1.00	63.80
MOTA	1232	CD2		1074	51.714	43.666	44.896		64.01
ATOM	1233	CE1		1074	51.336	42.098	47.151	1.00	62.95
ATOM	1234	CE2	PHE	1074	52.814	43.182	45.593	1.00	63.38
ATOM	1235	CZ	PHE	1074					
					52.625	42.395	46.725		62.84
MOTA	1236	С	PHE	1074	47.131	45.158	44.688	1.00	75.86
ATOM	1237	0	PHE	1074	46.657	44.205	44.093	1.00	76.77
									

MOTA	1238	N	PHE	1075	46.468	46.292	44.846	1.00	
ATOM	1239	CA	PHE	1075	45.109	46.393	44.335	1.00	
ATOM	1240		PHE	1075	44.147	45.893	45.419	1.00	81.14
ATOM	1241		PHE	1075	42.734	45.710	44.950	1.00	82.07
ATOM	1242		PHE	1075	41.945	46.804	44.611	1.00	82.38
	1242		PHE	1075	42.184	44.435	44.863	1.00	82.50
ATOM		CE1		1075	40.625	46.631	44.192	1.00	
ATOM	1244				40.867	44.250	44.445	1.00	
ATOM	1245		PHE	1075		45.350	44.111	1.00	
MOTA	1246		PHE	1075	40.088			1.00	
MOTA	1247	С	PHE	1075	44.743	47.809	43.912	1.00	
MOTA	1248	0	PHE	1075	44.850	48.732	44.712		
MOTA	1249	N	ASN	1076	44.334	47.983	42.655	1.00	
MOTA	1250	CA	ASN	1076	43.915	49.301	42.169	1.00	
ATOM	1251	CB	ASN	1076	44.399	49.572	40.736	1.00	
ATOM	1252	CG	ASN	1076	45.912	49.440	40.579		90.39
ATOM	1253	OD1	ASN	1076	46.674	49.663	41.523	1.00	90.81
ATOM	1254	ND2	ASN	1076	46.351	49.094	39.369	1.00	89.65
ATOM	1255	С	ASN	1076	42.395	49.255	42.184	1.00	89.79
ATOM	1256	0	ASN	1076	41.788	48.534	41.392	1.00	89.95
ATOM	1257	N	GLU	1077	41.781	50.014	43.088	1.00	91.57
	1258	CA	GLU	1077	40.322	50.018	43.213		92.90
MOTA					39.901	50.784	44.473		94.22
MOTA	1259	CB	GLU	1077		50.125	45.230		96.18
MOTA	1260	CG	GLU	1077	38.749				97.56
MOTA	1261	CD	GLU	1077	38.484	50.769	46.584		
MOTA	1262	OE1	GLU	1077	37.915	51.886	46.620		97.85
MOTA	1263	OE2	GLU	1077	38.856	50.156	47.612		98.21
MOTA	1264	С	GLU	1077	39.609	50.590	41.988		92.56
ATOM	1265	0	GLU	1077	38.431	50.306	41.755		92.27
MOTA	1266	N	ASP	1078	40.327	51.392	41.209		92.66
MOTA	1267	CA	ASP	1078	39.766	51.986	40.000		92.45
ATOM	1268	CB	ASP	1078	40.302	53.409	39.806	1.00	93.93
ATOM	1269	CG	ASP	1078	41.740	53.560	40.265	1.00	95.05
MOTA	1270		ASP	1078	42.607	52.762	39.833	1.00	95.30
MOTA	1271		ASP	1078	41.996	54.489	41.062	1.00	95.42
MOTA	1272	C	ASP	1078	40.072	51.132	38.767		90.82
		0	ASP	1078	40.325	51.650	37.678		91.05
ATOM	1273			1078	40.051	49.818	38.967		88.60
MOTA	1274	N	THR		40.031	48.830	37.918		85.91
ATOM	1275	CA	THR	1079		48.596	37.664		86.06
MOTA	1276	CB	THR	1079	41.792				86.97
MOTA	1277	OG1		1079	42.472	48.493	38.917		85.02
ATOM	1278	CG2		1079	42.394	49.728	36.850		83.65
MOTA	1279	С	THR	1079	39.668	47.538	38.431		
MOTA	1280	0	THR	1079	39.348		37.659		83.40
MOTA	1281	N	LYS	1080	39.491	47.478	39.749		80.88
ATOM	1282	CA	LYS	1080	38.911	46.320	40.419		78.54
MOTA	1283	CB	LYS	1080	37.457	46.106	39.972		80.40
MOTA	1284	CG	LYS	1080	36.522	47.276	40.284		83.06
MOTA	1285	CD	LYS	1080	36.375	47.537	41.789		84.70
ATOM	1286	CE	LYS	1080	35.457	46.517	42.463	1.00	85.87
ATOM	1287	NZ	LYS	1080	35.951	45.110	42.344	1.00	86.76
ATOM	1288	C	LYS	1080	39.729		40.146	1.00	75.69
ATOM	1289	Ö	LYS	1080	39.176	44.004	39.829		75.56
ATOM	1290	N	GLU	1081	41.048	45.188	40.275		71.38
ATOM	1291	CA	GLU	1081	41.943	44.061	40.046		67.00
				1081	42.111	43.814			67.39
ATOM	1292	CB CG	GLU GLU	1081	42.111		37.815		68.11
ATOM	1293						36.346		68.74
MOTA	1294	CD	GLU	1081	42.833				68.49
MOTA	1295		GLU	1081	41.914				69.19
MOTA	1296		GLU		43.872				
MOTA	1297		GLU	1081	43.317				62.81
MOTA	1298	0	GLU		43.834				62.11
MOTA	1299	N	TYR	1082	43.905	43.143	41.081	1.00	58.32

ATOM	1300	CA	TYR	1082	45.2	229	43.155	41.673	1.00	
ATOM	1301	CB	TYR	1082	45.4	143	41.910	42.539	1.00	53.67
ATOM	1302	CG	TYR	1082	44.4	102	41.678	43.613	1.00	55.65
		CD1	TYR	1082	43.3		41.138	43.302	1.00	56.05
MOTA	1303						40.870	44.300		56.86
MOTA	1304	CE1	TYR	1082	42.2			44.951		56.15
MOTA	1305	CD2	TYR	1082	44.6		41.953			
MOTA	1306	CE2	TYR	1082	43.	763	41.690	45.953		57.39
ATOM	1307	CZ	TYR	1082	42.9	533	41.147	45.625		58.16
ATOM	1308	OH	TYR	1082	41.6	527	40.867	46.627	1.00	60.04
ATOM	1309	С	TYR	1082	46.3	267	43.161	40.555	1.00	49.35
ATOM	1310	0	TYR	1082	46.		42.484	39.548	1.00	46.65
			PHE	1083	47.		43.939	40.725	1.00	45.87
MOTA	1311	N			48.		43.968	39.723		44.35
MOTA	1312	CA	PHE	1083				39.134		42.81
ATOM	1313	CB	PHE	1083	48.		45.364			
ATOM	1314	CG	PHE	1083	49.	720	45.435	38.171		43.31
ATOM	1315	CD1	PHE	1083	49.	636	44.828	36.914		42.99
ATOM	1316	CD2	PHE	1083	50.	928	46.022	38.552	1.00	41.85
ATOM	1317	CE1	PHE	1083	50.	738	44.801	36.057	1.00	41.77
ATOM	1318	CE2	PHE	1083	52.		45.996	37.702	1.00	43.29
ATOM	1319	CZ	PHE	1083	51.		45.384	36.453	1.00	41.19
					49.		43.495	40.301		43.56
MOTA	1320	C	PHE	1083						42.73
MOTA	1321	0	PHE	1083	50.		43.955	41.353		
ATOM	1322	N	PHE	1084	50.		42.580	39.582		44.36
ATOM	1323	CA	PHE	1084	51.		42.026	39.985		45.31
ATOM	1324	CB	PHE	1084	51.	469	40.518	40.223		45.85
MOTA	1325	CG	PHE	1084	50.	615	40.162	41.402	1.00	45.39
ATOM	1326	CD1	PHE	1084	51.	152	40.150	42.685	1.00	46.46
MOTA	1327	CD2	PHE	1084	49.		39.853	41.234	1.00	46.34
	1328	CE1	PHE	1084	50.		39.831	43.796		46.96
ATOM							39.534	42.330		47.11
MOTA	1329	CE2	PHE	1084		464				46.93
MOTA	1330	CZ	PHE	1084		007	39.522	43.615		
MOTA	1331	C	PHE	1084	52.	623	42.293	38.896		45.45
MOTA	1332	0	PHE	1084	52.	499	41.822	37.767		46.89
ATOM	1333	N	ASP	1085	53.	633	43.071	39.242	1.00	46.12
ATOM	1334	CA	ASP	1085	54.	692	43.392	38.313	1.00	46.55
ATOM	1335	СВ	ASP	1085	55.	327	44.720	38.738	1.00	46.98
ATOM	1336	CG	ASP	1085		216	45.324	37.667	1.00	50.33
			ASP	1085		027	45.014	36.468		51.77
MOTA	1337						46.130	38.027		50.66
MOTA	1338		ASP	1085		101				46.38
MOTA	1339	С	ASP	1085		688	42.225	38.377		
MOTA	1340	0	ASP	1085		859	42.407	38.702		45.77
MOTA	1341	N	ARG	1086	55.	195	41.019	38.083		46.71
MOTA	1342	CA	ARG	1086	56.	800	39.796	38.104		46.02
MOTA	1343	CB	ARG	1086	55.	530	38.827	39.192	1.00	47.42
ATOM	1344	CG	ARG	1086	55.	262	39.406	40.576	1.00	50.24
ATOM	1345	CD	ARG	1086		514	39.718	41.355	1.00	49.79
ATOM	1346	NE	ARG	1086		595	38.777	41.096	1.00	52.94
						680	38.672	41.858		53.34
ATOM	1347	CZ	ARG	1086				42.925		52.58
ATOM	1348		ARG	1086		803	39.447			
MOTA	1349		ARG	1086		650	37.818	41.545		52.70
MOTA	1350	С	ARG	1086	55.	904	39.057	36.769		44.60
MOTA	1351	0	ARG	1086	55.	155	39.457	35.873		42.80
ATOM	1352	N	ASP	1087	56.	637	37.952	36.656	1.00	43.86
ATOM	1353	CA	ASP	1087	56.	614	37.160	35.440	1.00	43.09
ATOM	1354	CB	ASP	1087		716	36.118	35.450		43.16
ATOM	1355	CG	ASP	1087		733	35.303	34.175		46.90
						866	35.893	33.080		47.95
ATOM	1356		ASP	1087						49.46
ATOM	1357		ASP	1087		601	34.072	34.258		
MOTA	1358	С	ASP	1087		. 275	36.456	35.224		42.73
MOTA	1359	0	ASP	1087		.816	35.678	36.062		42.10
MOTA	1360	N	PRO	1088	54	. 637	36.706	34.075		42.37
ATOM	1361	CD	PRO	1088	55	.020	37.655	33.013	1.00	41.20

ATOM	1362	CA	PRO	1088	53.345	36.071	33.796	1.00	42.63
MOTA	1363	CB	PRO	1088	52.814	36.875	32.612	1.00	40.59
ATOM	1364	CG	PRO	1088	54.046	37.323	31.911	1.00	41.50
ATOM	1365	C	PRO	1088	53.411	34.574	33.504	1.00	44.39
ATOM	1366	Ō	PRO	1088	52.450	33.850	33.743	1.00	43.38
ATOM	1367	N	GLU	1089	54.556	34.112	33.007	1.00	47.08
ATOM	1368	CA	GLU	1089	54.725	32.709	32.651		48.63
ATOM	1369	CB	GLU	1089	56.000	32.528	31.824		51.24
		CG	GLU	1089	55.883	31.438	30.763		55.39
ATOM	1370					31.526	29.990		59.25
MOTA	1371	CD	GLU GLU	1089	54.566	30.758	30.316		60.78
ATOM	1372	OE1		1089	53.630				61.26
ATOM	1373	OE2	GLU	1089	54.460	32.375	29.069		
ATOM	1374	C	GLU	1089	54.751	31.759	33.839		48.75
ATOM	1375	0	GLU	1089	54.070	30.729	33.834		48.87
MOTA	1376	N	VAL	1090	55.538	32.097	34.854		48.59
ATOM	1377	CA	VAL	1090	55.644	31.257	36.042		48.38
MOTA	1378	CB	VAL	1090	56.823	31.701	36.952		49.09
MOTA	1379	CG1	VAL	1090	57.101	30.644	38.004		48.48
MOTA	1380	CG2	VAL	1090	58.064	31.936	36.121		51.46
ATOM	1381	С	VAL	1090	54.355	31.301	36.856		46.95
MOTA	1382	0	VAL	1090	53.995	30.320	37.498		47.89
ATOM	1383	N	PHE	1091	53.654	32.431	36.819	1.00	45.22
ATOM	1384	CA	PHE	1091	52.413	32.576	37.572	1.00	44.04
MOTA	1385	CB	PHE	1091	51.811	33.955	37.330	1.00	43.36
ATOM	1386	CG	PHE	1091	50.666	34.277	38.238	1.00	41.81
ATOM	1387	CD1	PHE	1091	50.895	34.669	39.547	1.00	42.43
ATOM	1388	CD2	PHE	1091	49.356	34.156	37.795	1.00	41.51
ATOM	1389	CE1	PHE	1091	49.839	34.937	40.410	1.00	41.49
ATOM	1390	CE2	PHE	1091	48.293	34.419	38.650	1.00	41.73
ATOM	1391	CZ	PHE	1091	48.537	34.812	39.963	1.00	41.20
ATOM	1392	C	PHE	1091	51.381	31.503	37.219		43.79
ATOM	1393	Ō	PHE	1091	50.546	31.149	38.042		42.27
ATOM	1394	N	ARG	1092	51.434	30.989	35.995		44.74
MOTA	1395	CA	ARG	1092	50.498	29.952	35.576		47.11
ATOM	1396	CB	ARG	1092	50.727	29.590	34.108		49.30
MOTA	1397	CG	ARG	1092	49.619	28.755	33.501		54.03
ATOM	1398.	CD	ARG	1092	50.122	27.912	32.330		58.04
		NE	ARG	1092	51.060	26.880	32.774		62.76
ATOM	1399	CZ							65.25
ATOM	1400		ARG	1092	51.715	26.050	31.966		66.11
ATOM	1401	NH1	ARG	1092	51.538	26.123	30.657		66.67
ATOM	1402	NH2	ARG	1092	52.562	25.158	32.467		
MOTA	1403	С	ARG	1092	50.650	28.698	36.462		46.80
ATOM	1404	0	ARG	1092	49.661	28.059	36.807		44.23
MOTA	1405	N	CYS	1093	51.887	28.353	36.828		47.16
MOTA	1406	CA	CYS	1093	52.148	27.193	37.696		47.19
MOTA	1407	CB	CYS	1093	53.647	26.870	37.777		49.42
MOTA	1408	SG	CYS	1093	54.372	26.261	36.256		57.76
ATOM	1409	С	CYS	1093	51.669	27.494	39.101		45.39
MOTA	1410	0	CYS	1093	51.172	26.615	39.802		44.16
MOTA	1411	N	VAL	1094	51.848	28.741	39.520		43.91
MOTA	1412	CA	VAL	1094	51.420	29.141	40.843		44.14
MOTA	1413	CB	VAL	1094	51.819	30.600	41.147		44.88
ATOM	1414	CG1	VAL	1094	51.138	31.076	42.423	1.00	44.16
MOTA	1415	CG2	VAL	1094	53.333	30.698	41.295	1.00	45.26
ATOM	1416	С	VAL	1094	49.915	29.002	40.934	1.00	43.88
ATOM	1417	0	VAL	1094	49.397	28.381	41.858	1.00	43.99
ATOM	1418	N	LEU	1095	49.215	29.563	39.956	1.00	44.44
ATOM	1419	CA	LEU	1095	47.765	29.513	39.943	1.00	45.68
ATOM	1420	CB	LEU	1095	47.221	30.394	38.819		46.88
ATOM	1421	CĢ	LEU	1095	45.729	30.698	38.940		48.11
ATOM	1422		LEU	1095	45.482	31.426	40.262		48.21
ATOM	1423		LEU	1095	45.269	31.548	37.763		48.53

MOTA	1424	С	LEU	1095	47.225	28.092	39.806	1.00	46.37
MOTA	1425	0	LEU	1095	46.221	27.744	40.431		45.37
ATOM	1426	N	ASN	1096	47.887	27.273	38.994		47.42
MOTA	1427	CA	ASN	1096	47.452	25.903	38.816		49.62
ATOM	1428	CB	ASN ASN	1096	48.245	25.219 25.614	37.702 36.309		51.80 55.06
ATOM ATOM	1429 1430	CG OD1	ASN	1096 1096	47.754 46.547	25.706	36.069		56.24
ATOM	1431	ND2	ASN	1096	48.687	25.834	35.383		55.43
ATOM	1432	C	ASN	1096	47.611	25.141	40.125		50.35
ATOM	1433	0	ASN	1096	46.955	24.118	40.345		48.90
ATOM	1434	N	PHE	1097	48.480	25.650	40.995		50.77
ATOM	1435	CA	PHE	1097	48.709	25.030	42.292	1.00	51.36
ATOM	1436	CB	PHE	1097	49.886	25.684	43.003	1.00	51.66
ATOM	1437	CG	PHE	1097	49.929	25.382	44.465	1.00	52.48
MOTA	1438	CD1	PHE	1097	50.206	24.095	44.914		53.14
MOTA	1439	CD2	PHE	1097	49.623	26.365	45.398		53.22
MOTA	1440	CE1	PHE	1097	50.174	23.789	46.278		52.88
MOTA	1441	CE2	PHE	1097	49.588	26.071	46.760		53.47
ATOM	1442	CZ	PHE	1097	49.864	24.779	47.198		52.54
ATOM	1443	C	PHE	1097 1097	47.462	25.151 24.155	43.167 43.711		52.13 53.47
ATOM ATOM	1444 1445	N	PHE TYR	1097	46.979 46.941	26.367	43.711		52.12
ATOM	1445	CA	TYR	1098	45.739	26.577	44.116		52.08
ATOM	1447	CB	TYR	1098	45.312	28.044	44.104		50.46
ATOM	1448	CG	TYR	1098	46.244	28.932	44.869		49.91
ATOM	1449	CD1	TYR	1098	47.440	29.367	44.306		49.56
ATOM	1450	CE1	TYR	1098	48.333	30.144	45.037	1.00	49.86
MOTA	1451	CD2	TYR	1098	45.961	29.295	46.180	1.00	49.66
MOTA	1452	CE2	TYR	1098	46.846	30.067	46.920	1.00	48.85
MOTA	1453	CZ	TYR	1098	48.027	30.488	46.345	1.00	49.32
MOTA	1454	ОН	TYR	1098	48.900	31.252	47.076		49.77
MOTA	1455	С	TYR	1098	44.559	25.740	43.651		52.55
ATOM	1456	0	TYR	1098	43.806	25.216	44.469		53.71
ATOM	1457	N	ARG	1099	44.390	25.612	42.343		53.00
MOTA	1458	CA CB	ARG	1099	43.266	24.846 25.325	41.838		54.84 55.79
ATOM ATOM	1459 1460	CG	ARG ARG	1099 1099	42.881 44.012	25.325	39.428		59.67
ATOM	1461	CD	ARG	1099	43.483	25.547	38.021		61.78
ATOM	1462	NE	ARG	1099	42.802	26.872	37.901		64.51
ATOM	1463	CZ	ARG	1099	43.331	27.957	37.337		66.36
ATOM	1464		ARG	1099	44.558	27.915	36.830	1.00	67.02
MOTA	1465	NH2	ARG	1099	42.635	29.089	37.282	1.00	66.44
MOTA	1466	С	ARG	1099	43.438	23.328	41.844	1.00	54.56
MOTA	1467	0	ARG	1099	42.453	22.607	41.741	1.00	55.79
MOTA	1468	N	THR	1100	44.664	22.831	41.977		53.95
ATOM	1469	CA	THR	1100	44.860	21.382	41.975		53.09
ATOM	1470	CB	THR	1100	45.631	20.895	40.721		51.84
ATOM	1471	OG1		1100	47.003	21.307	40.801		49.92
ATOM	1472	CG2	THR	1100	44.992	21.451	39.456		50.73 53.71
ATOM ATOM	1473 1474	0	THR THR	1100 1100	45.593 45.594	20.845	43.192 43.425		54.31
ATOM	1475	N	GLY	1101	46.216		43.423		53.79
ATOM	1476	CA	GLY	1101	46.944	21.289	45.137		54.19
ATOM	1477	C	GLY	1101	48.345	20.834	44.784		55.26
ATOM	1478	0	GLY	1101	49.233	20.808	45.637		56.41
MOTA	1479	N	LYS	1102	48.549	20.473	43.522		55.38
MOTA	1480	CA	LYS	1102	49.859	20.024	43.065	1.00	56.28
ATOM	1481	CB	LYS	1102	49.724	18.902	42.031	1.00	57.82
MOTA	1482	CG	LYS	1102	48.689	17.850	42.354		61.24
ATOM	1483	CD	LYS	1102	48.847	16.632	41.441		63.57
ATOM	1484	CE	LYS	1102	50.208	15.956	41.655		64.84
ATOM	1485	NZ	LYS	1102	50.410	14.730	40.817	1.00	65.31

ATOM	1486	С	LYS	1102	50.64	2 21.171	42.426	1.00	55.11
ATOM	1487	0	LYS	1102	50.108	3 21.935	41.612	1.00	56.00
MOTA	1488	N	LEU	1103	51.910	21.291	42.799	1.00	52.74
MOTA	1489	CA	LEU	1103	52.768	3 22.318	42.230	1.00	49.68
MOTA	1490	CB	LEU	1103	53.579	23.007	43.325	1.00	48.84
ATOM	1491	CG	LEU	1103	54.524	24.117	42.872	1.00	48.93
MOTA	1492		. LEU	1103	53.74	L 25.197	42.144	1.00	48.04
MOTA	1493	CD2	LEU	1103	55.24	L 24.691	44.080	1.00	48.66
ATOM	1494	C	LEU	1103	53.70	1 21.622	41.253	1.00	47.72
ATOM	1495	0	LEU	1103	54.454	20.738	41.635	1.00	47.45
ATOM	1496	N	HIS	1104	53.633	3 22.014	39.988	1.00	46.69
ATOM	1497	CA	HIS	1104	54.476	21.421	38.954	1.00	45.97
ATOM	1498	CB	HIS	1104	53.665		37.677	1.00	43.83
ATOM	1499	CG	HIS	1104	52.441		37.893		44.77
ATOM	1500		HIS	1104	51.177		38.236	1.00	43.94
ATOM	1501		HIS	1104	52.463		37.866		44.77
ATOM	1502		HIS	1104	51.270		38.188		43.46
ATOM	1503	NE2		1104	50.472		38.419	1.00	45.15
ATOM ATOM	1504	C	HIS	1104	55.669		38.629	1.00	46.31
	1505	0	HIS	1104	55.721		38.994	1.00	
ATOM ATOM	1506	N	TYR	1105	56.643		37.949		46.18
ATOM	1507	CA	TYR	1105	57.813		37.541		46.56
ATOM	1508 1509	CB CG	TYR	1105	59.080		38.203		45.78
ATOM	1510	CD1	TYR TYR	1105 1105	60.347		37.622		45.87
ATOM	1511	CE1	TYR	1105	60.656		37.784		44.93
ATOM	1512	CD2	TYR	1105	61.771		37.162		45.93
ATOM	1513	CE2	TYR	1105	61.193		36.831		45.93
ATOM	1514	CZ	TYR	1105	62.306 62.588		36.209		46.26
ATOM	1515	ОН	TYR	1105	63.680		36.373		46.23
ATOM	1516	C	TYR	1105	57.906		35.737 36.023		46.63
ATOM	1517	ō	TYR	1105	58.143		35.493		47.27
ATOM	1518	N	PRO	1106	57.672		35.303		46.80 49.34
ATOM	1519	CD	PRO	1106	57.294		35.829		48.71
ATOM	1520	CA	PRO	1106	57.741		33.833	1.00	
ATOM	1521	CB	PRO	1106	57.038		33.464		50.69
ATOM	1522	CG	PRO	1106	57.419		34.609		49.49
ATOM	1523	С	PRO	1106	59.219		33.416		53.52
MOTA	1524	0	PRO	1106	59.955		33.619		52.71
MOTA	1525	N	ARG	1107	59.643	22.318	32.842		55.69
ATOM	1526	CA	ARG	1107	61.034	22.133	32.450		58.82
MOTA	1527	CB	ARG	1107	61.231	20.720	31.917		60.44
ATOM	1528	CG	ARG	1107	60.251	20.303	30.856	1.00	63.65
ATOM	1529	CD	ARG	1107	60.457	18.832	30.549	1.00	66.63
ATOM	1530	NE	ARG	1107	60.396	18.033	31.770	1.00	69.05
ATOM	1531	CZ	ARG	1107	60.700		31.842	1.00	71.79
ATOM	1532		ARG	1107	61.093		30.755	1.00	72.53
ATOM	1533		ARG	1107	60.606		33.003		71.60
ATOM	1534	C	ARG	1107	61.665		31.482		59.70
ATOM	1535	0	ARG	1107	62.861		31.211	1.00	59.11
ATOM	1536	N Ca	TYR	1108	60.879		30.969		60.84
ATOM ATOM	1537	CA	TYR	1108	61.422	25.070	30.054		61.83
ATOM	1538	CB	TYR	1108	60.378	25.425	28.976		64.01
ATOM	1539 1540	CG CD1	TYR TYR	1108	59.078	26.023	29.507		65.37
ATOM	1540	CE1	TYR	1108 1108	59.038	27.317	30.030		65.69
ATOM	1541	CD2	TYR	1108	57.858	27.850	30.550		66.57
ATOM	1543	CE2	TYR	1108	57.896	25.277	29.514		66.89
ATOM	1544	CZ	TYR	1108	56.710 56.699	25.799	30.029		67.01
ATOM	1545	ОН	TYR	1108	55.537	27.084	30.548		67.59
ATOM	1546	C	TYR	1108	61.819	27.593 26.323	31.086 30.844		69.05
ATOM	1547	0	TYR	1108	62.361	27.279	30.844		61.18 61.08
					52.501		50.232	1.00	J1.00

ATOM	1548	N	GLU	1109	61.	553	26.305	32.145		59.72
MOTA	1549	CA	GLU	1109		846	27.456	32.986		58.79 61.40
MOTA	1550	CB	GLU	1109		674	27.701	33.951		65.76
MOTA	1551	CG	GLU	1109		.604	29.127	34.483 33.360		69.33
ATOM	1552	CD	GLU	1109		.544 .470	30.160 30.306	32.723		69.51
MOTA	1553	OE1		1109 1109		.582	30.814	33.109		70.74
MOTA	1554	OE2 C	GLU GLU	1109		.142	27.327	33.777		56.03
ATOM	1555 1556	0	GLU	1109		. 503	26.243	34.215		54.80
ATOM ATOM	1557	N	CYS	1110		.836	28.448	33.947		53.04
MOTA	1558	CA	CYS	1110		.075	28.483	34.708	1.00	50.39
ATOM	1559	CB	CYS	1110		.776	29.831	34.554	1.00	51.10
ATOM	1560	SG	CYS	1110	67	.088	30.103	35.787	1.00	54.99
ATOM	1561	Ç	CYS	1110	64	.721	28.276	36.170	1.00	49.39
ATOM	1562	0	CYS	1110	63	.815	28.933	36.714		47.15
MOTA	1563	N	ILE	1111		.451	27.370	36.806		47.33
MOTA	1564	CA	ILE	1111		.209	27.042	38.195		47.33
MOTA	1565	CB	ILE	1111		.210	25.933	38.669		48.14
MOTA	1566	CG2		1111		.573	26.532	38.999		46.55
MOTA	1567	CG1		1111		.622	25.182	39.858		48.78
MOTA	1568	CD1		1111		.530	24.236	39.461		49.24 46.81
ATOM	1569	C	ILE	1111		.267	28.279 28.343	39.109 40.102		46.21
ATOM	1570	0	ILE	1111 1112		.546 .105	29.261	38.775		45.72
ATOM	1571	N	SER SER	1112		. 202	30.472	39.597		46.37
ATOM ATOM	1572 1573	CA CB	SER	1112		.430	31.296	39.226		46.72
ATOM	1574	OG	SER	1112		.607	30.628	39.620		53.75
ATOM	1575	C	SER	1112		.974	31.353	39.458	1.00	45.62
ATOM	1576	Ö	SER	1112		.457	31.864	40.447	1.00	44.28
ATOM	1577	N	ALA	1113		.525	31.544	38.221	1.00	45.23
ATOM	1578	CA	ALA	1113	63	.344	32.355	37.957	1.00	46.33
ATOM	1579	СВ	ALA	1113	63	.037	32.359	36.465		45.97
ATOM	1580	С	ALA	1113	62	.187	31.746	38.730		46.02
ATOM	1581	0	ALA	1113	61	.453	32.445	39.432		46.57
MOTA	1582	N	TYR	1114		.063	30.426	38.607		46.07
MOTA	1583	CA	TYR	1114		.022	29.648	39.268		46.10
MOTA	1584	CB	TYR	1114		.209	28.168	38.909		46.01
MOTA	1585	ÇG	TYR	1114		.119	27.238	39.389		45.54
MOTA	1586	CD1		1114		.839	27.283	38.832		45.29 44.44
ATOM	1587	CE1		1114		.834	26.404	39.259		44.44
MOTA	1588	CD2		1114		372	26.291 25.408	40.392		44.48
ATOM	1589	CE2		1114		3.377	25.408	40.828		45.27
ATOM	1590	CZ	TYR	1114 1114		3.111 7.127	24.613			44.61
MOTA MOTA	1591 1592	OH C	TYR TYR	1114		.052	29.857			47.73
MOTA	1593	0	TYR	1114		0.044	30.253	41.378		47.32
MOTA	1594	N	ASP	1115		2.200	29.603		1.00	49.45
ATOM	1595	CA	ASP	1115		2.335	29.782		1.00	51.72
MOTA	1596	СВ	ASP	1115		3.736	29.400	43.346	1.00	53.37
ATOM	1597	CG	ASP	1115	63	3.943	27.898	43.435	1.00	56.61
MOTA	1598	QD:	1 ASP	1115	63	3.007	27.185	43.867	1.00	58.15
MOTA	1599	OD:	2 ASP	1115	65	5.053	27.430			59.12
MOTA	1600	С	ASP	1115	62	2.052	31.221			53.14
MOTA	1601	0	ASP	1115		1.425	31.462			52.72
MOTA	1602	N	ASP	1116		2.524	32.178			54.93
ATOM	1603	CA		1116		2.296	33.591			57.32
MOTA	1604	CB	ASP	1116		2.863	34.479			60.27
MOTA	1605	CG		1116		4.345				63.66
MOTA	1606		1 ASP	1116		5.060				65.56
MOTA	1607		2 ASP	1116		4.795) 66.00) 57.36
ATOM	1608		ASP	1116		0.805		42.938 43.913		57.30
ATOM	1609	0	ASP	1116	6	0.373	34.404	43.743	1.00	, ,,,,,,

ATOM	1610	N	GLU	1117	60.018	33.394	41.974	1.00	56.04
ATOM	1611	CA	GLU	1117	58.582	33.602	42.030		55.48
ATOM	1612	CB	GLU	1117	57.932	33.193	40.704		55.62
ATOM	1613	CG	GLU	1117	58.530	33.878	39.467	1.00	56.24
ATOM	1614	CD	GLU	1117	58.531	35.410	39.544	1.00	55.63
MOTA	1615	OE1	GLU	1117	57.460	36.022	39.767	1.00	53.72
ATOM	1616	OE2	GLU	1117	59.617	36.003	39.364		56.38
MOTA	1617	C	GLU	1117	57.943	32.836	43.194		54.77
ATOM	1618	0	GLU	1117	57.097	33.380	43.910	1.00	54.46
ATOM	1619	N	LEU	1118	58.336	31.581	43.395	1.00	54.04
ATOM	1620	CA	LEU	1118	57.763	30.810	44.491	1.00	53.36
ATOM	1621	СВ	LEU	1118	58.392	29.424	44.571	1.00	52.67
		CG	LEU	1118	57.887	28.439	43.524		53.72
ATOM	1622								
ATOM	1623		LEU	1118	58.362	27.031	43.876		53.19
MOTA	1624	CD2	LEU	1118	56.362	28.497	43.481		53.76
MOTA	1625	С	LEU	1118	57.977	31.545	45.802	1.00	53.28
MOTA	1626	0	LEU	1118	57.085	31.604	46.655	1.00	52.48
ATOM	1627	N	ALA	1119	59.169	32.109	45.956	1.00	53.26
ATOM	1628	CA	ALA	1119	59.505	32.859	47.159		53.56
ATOM	1629	CB	ALA	1119	60.946	33.371	47.072		51.54
ATOM	1630	С	ALA	1119	58.533	34.031	47.325	1.00	53.67
ATOM	1631	0	ALA	1119	57.928	34.201	48.384	1.00	53.70
ATOM	1632	N	PHE	1120	58.386	34.826	46.267	1.00	54.16
ATOM	1633	CA	PHE	1120	57.501	35.984	46.282		55.47
									55.34
ATOM	1634	CB	PHE	1120	57.499	36.665	44.915		
MOTA	1635	CG	PHE	1120	56.543	37.821	44.811		55.52
MOTA	1636	CD1	PHE	1120	56.853	39.054	45.379	1.00	55.25
MOTA	1637	CD2	PHE	1120	55.331	37.682	44.133	1.00	55.87
ATOM	1638	CE1	PHE	1120	55.974	40.133	45.273	1.00	54.86
ATOM	1639	CE2	PHE	1120	54.440	38.755	44.020		55.38
ATOM	1640	CZ	PHE	1120	54.765	39.983	44.592		55.48
ATOM	1641	C	PHE	1120	56.074	35.611	46.649		56.46
MOTA	1642	0	PHE	1120	55.414	36.321	47.411	1.00	57.39
ATOM	1643	N	TYR	1121	55.597	34.495	46.111	1.00	57.45
ATOM	1644	CA	TYR	1121	54.233	34.064	46.376	1.00	58.57
ATOM	1645	СВ	TYR	1121	53.712	33.230	45.204		58.75
									58.11
ATOM	1646	CG	TYR	1121	53.499	34.065	43.964		
MOTA	1647	CD1	TYR	1121	52.518	35.057	43.933		58.27
MOTA	1648	CE1	TYR	1121	52.354	35.875	42.818	1.00	58.11
MOTA	1649	CD2	TYR	1121	54.312	33.906	42.844	1.00	57.55
MOTA	1650	CE2	TYR	1121	54.156	34.720	41.725	1.00	57.74
ATOM	1651	CZ	TYR	1121	53.177	35.701	41.719		57.37
				1121			40.617		58.12
ATOM	1652	OH	TYR		53.026				
MOTA	1653	С	TYR	1121	54.086	33.302	47.673		59.41
MOTA	1654	0	TYR	1121	52.982	32.906	48.041		59.83
MOTA	1655	N	GLY	1122	55.208	33.110	48.363	1.00	60.47
ATOM	1656	CA	GLY	1122	55.199	32.408	49.631	1.00	60.54
ATOM	1657	С	GLY	1122	54.864	30.938	49.514		61.66
ATOM	1658	Ō	GLY	1122	54.293	30.355	50.434		61.80
ATOM	1659	N	ILE	1123	55.203	30.333	48.382		63.04
MOTA	1660	CA	ILE	1123	54.935	28.914	48.182	1.00	64.42
ATOM	1661	CB	ILE	1123	54.401	28.628	46.766	1.00	63.77
MOTA	1662	CG2	ILE	1123	54.203	27.145	46.573	1.00	63.34
MOTA	1663		ILE	1123	53.073	29.349	46.560	1.00	64.03
ATOM	1664	CD1		1123	52.528	29.233	45.145		65.09
ATOM	1665	C	ILE				48.384		65.61
				1123	56.251	28.187			
MOTA	1666	0	ILE	1123	57.276	28.595	47.840		65.16
MOTA	1667	N	LEU	1124	56.216	27.124	49.181		67.28
MOTA	1668	CA	LEU	1124	57.409	26.340	49.480	1.00	69.17
ATOM	1669	CB	LEU	1124	57.306	25.749	50.888	1.00	71.19
MOTA	1670	CG	LEU	1124	57.523	26.687	52.086		72.78
ATOM	1671		LEU	1124	56.497	27.820	52.089		72.91
					30.237				

MOTA	1672	CD2	LEU	1124	57.424	25.870	53.373	1.00	73.00
MOTA	1673	C	LEU	1124	57.608	25.231	48.459	1.00	69.68
MOTA	1674	0	LEU	1124	56.722	24.406	48.244	1.00	69.85
MOTA	1675	N	PRO	1125	58.784	25.197	47.814	1.00	70.17
MOTA	1676	CD	PRO	1125	59.900	26.137	48.003	1.00	70.18
MOTA	1677	CA	PRO	1125	59.117	24.192	46.799	1.00	71.16
MOTA	1678	CB	PRO	1125	60.498	24.637	46.311	1.00	71.46
MOTA	1679	CG	PRO	1125	61.072	25.334	47.504	1.00	70.98
MOTA	1680	С	PRO	1125	59.088	22.738	47.261	1.00	72.28
ATOM	1681	0	PRO	1125	59.387	21.830	46.480	1.00	72.88
MOTA	1682	N	GLU	1126	58.733	22.517	48.524	1.00	73.08
ATOM	1683	CA	GLU	1126	58.636	21.161	49.062		73.97
ATOM	1684	CB	GLU	1126	58.816	21.154	50.583	1.00	75.54
ATOM	1685	CG	GLU	1126	60.158	21.677	51.055		78.21
MOTA	1686	CD	GLU	1126	60.278	23.181	50.901		80.43
ATOM	1687	OE1		1126	59.485	23.905	51.543		80.92
ATOM	1688	OE2		1126	61.159	23.640	50.141		81.78
ATOM	1689	C	GLU	1126	57.242	20.660	48.716	1.00	73.58
ATOM	1690	0	GLU	1126	56.903	19.497	48.932	1.00	73.67
ATOM	1691	N	ILE	1127	56.442	21.569	48.174		72.64
ATOM	1692	CA	ILE	1127	55.077	21.282	47.775	1.00	71.86
ATOM	1693	CB	ILE	1127	54.240	22.579	47.809	1.00	
ATOM	1694	CG2	ILE	1127	52.831	22.312	47.322	1.00	73.41
MOTA MOTA	1695	CG1	ILE	1127	54.228	23.134	49.240	1.00	74.43
ATOM	1696 1697	CD1 C	ILE	1127	53.606	24.524	49.391	1.00	74.78
ATOM	1698	0		1127	55.070	20.699	46.365	1.00	
ATOM	1699	N	ILE ILE	1127 1128	54.035	20.258	45.868		70.38
ATOM	1700	CA	ILE	1128	56.233	20.687	45.724		68.41
ATOM	1701	CB	ILE		56.333	20.167	44.369	1.00	
ATOM	1701	CG2	ILE	1128 1128	57.768 57.911	20.341	43.807		66.91
ATOM	1702	CG1	ILE	1128	58.061	19.621	42.464		64.80
ATOM	1704	CD1	ILE	1128		21.836	43.653		66.70
ATOM	1705	CDI	ILE	1128	59.303 55.909	22.155	42.874	1.00	
ATOM	1706	0	ILE	1128	56.499	18.708 17.826	44.263 44.887	1.00	67.00
ATOM	1707	N	GLY	1129	54.872	18.470	43.464		65.88
ATOM	1708	CA	GLY	1129	54.372	17.125	43.404	1.00	
ATOM	1709	C	GLY	1129	55.459	16.112	42.964	1.00	
ATOM	1710	Ō	GLY	1129	56.493	16.444	42.383		65.39
ATOM	1711	N	ASP	1130	55.217	14.867	43.364		65.80
ATOM	1712	CA	ASP	1130	56.154	13.771	43.140	1.00	
ATOM	1713	СВ	ASP	1130	55.582	12.472	43.731		69.23
MOTA	1714	CG		1130			43.652		73.87
MOTA	1715	OD1		1130	57.613	11.349	44.345		76.02
ATOM	1716	OD2	ASP	1130	56.285	10.340	42.894		76.17
ATOM	1717	С	ASP	1130	56.402	13.599	41.640		62.82
MOTA	1718	0	ASP	1130	57.429	13.060	41.222		62.46
MOTA	1719	N	CYS	1131	55.448	14.069	40.841		59.80
MOTA	1720	CA	CYS	1131	55.518	13.986	39.383	1.00	56.43
MOTA	1721	CB	CYS	1131	54.166	14.370	38.776	1.00	55.87
MOTA	1722	SG	CYS	1131	53.476	15.919	39.462	1.00	52.85
MOTA	1723	С	CYS	1131	56.587	14.908	38.823	1.00	54.87
MOTA	1724	0	CYS	1131	57.168	14.632	37.776	1.00	54.95
ATOM	1725	N	CYS	1132	56.842	16.005	39.526	1.00	53.29
ATOM	1726	CA	CYS	1132	57.820	16.977	39.072	1.00	53.58
ATOM		CB	CYS	1132	57.172	18.365	38.972		52.31
ATOM	1728	SG	CYS	1132	56.219	18.620	37.453		48.71
ATOM	1729	C	CYS	1132	59.063	17.080	39.926		54.86
ATOM	1730	0	CYS	1132	60.050	17.663	39.487		54.76
ATOM ATOM	1731	N	TYR	1133	59.026	16.522	41.135		56.30
ATOM	1732 1733	CA CB	TYR TYR	1133 1133	60.172	16.608	42.034		58.75
-11011	-133	CD	111	-100	59.922	15.825	43.325	1.00	61.17

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ATOM	1734	CG	TYR	1133	61.033	16.034	44.327	1.00	
MOTA	1735	CD1	TYR	1133	61.308	17.312	44.829	1.00	
ATOM	1736	CE1	TYR	1133	62.404	17.546	45.670	1.00	
ATOM	1737	CD2	TYR	1133	61.875	14.984	44.698 45.539	1.00	
ATOM	1738	CE2	TYR TYR	1133	62.974 63.236	15.204 16.490	46.018	1.00	
MOTA	1739 1740	CZ OH	TYR	1133 1133	64.345	16.726	46.809	1.00	
ATOM ATOM	1741	C	TYR	1133	61.509	16.720	41.437	1.00	
MOTA	1741	0	TYR	1133	62.495	16.895	41.498		57.30
ATOM	1743	N	GLU	1134	61.546	14.965	40.865	1.00	60.27
ATOM	1744	CA	GLU	1134	62.782	14.462	40.283	1.00	62.20
MOTA	1745	CB	GLU	1134	62.519	13.163	39.519	1.00	64.50
MOTA	1746	CG	GLU	1134	63.343	11.970	40.009		69.85
ATOM	1747	CD	GLU	1134	64.844	12.155	39.804		73.16
MOTA	1748	OE1	GLU	1134	65.274	12.364	38.645		74.03
ATOM	1749	OE2	GLU	1134	65.593	12.086	40.806		74.51
ATOM	1750	C	GLU	1134	63.440	15.491	39.364 39.488		62.07 62.03
ATOM	1751	о О	GLU GLU	1134 1135	64.635 62.662	15.757 16.074	38.453		61.95
ATOM ATOM	1752 1753	CA	GLU	1135	63.185	17.077	37.522		61.21
ATOM	1754	CB	GLU	1135	62.142	17.422	36.454		64.56
ATOM	1755	CG	GLU	1135	62.538	16.985	35.049		68.98
ATOM	1756	CD	GLU	1135	63.798	17.676	34.554	1.00	71.87
ATOM	1757	OE1	GLU	1135	63.760	18.908	34.334		73.44
MOTA	1758	OE2	GLU	1135	64.829	16.987	34.388		73.71
ATOM	1759	С	GLU	1135	63.617	18.354	38.236		58.70
ATOM	1760	0	GLU	1135	64.642	18.940	37.902		57.24
MOTA	1761	N	TYR	1136	62.826	18.791	39.207		55.83 55.90
ATOM	1762	CA	TYR	1136	63.170	19.981	39.962 41.001		54.77
MOTA MOTA	1763 1764	CB CG	TYR TYR	1136 1136	62.084 62.380	20.277 21.475	41.862		54.87
MOTA	1765	CD1	TYR	1136	62.287	22.761	41.348		56.18
MOTA	1766	CE1	TYR	1136	62.598	23.878	42.126		57.52
ATOM	1767	CD2	TYR	1136	62.792	21.323	43.182		55.91
ATOM	1768	CE2	TYR	1136	63.110	22.432	43.976	1.00	57.16
MOTA	1769	CZ	TYR	1136	63.010	23.707	43.440		59.03
MOTA	1770	ОН	TYR	1136	63.321	24.815	44.203		60.74
MOTA	1771	C	TYR	1136	64.514	19.742	40.670		56.32
ATOM	1772	0	TYR	1136	65.383	20.617	40.693		54.54 57.06
ATOM	1773	N	LYS LYS	1137	64.660 65.854	18.541 18.115	41.237 41.969	1.00	
ATOM ATOM	1774 1775	CA CB	LYS	1137 1137	65.630	16.692	42.497		58.71
ATOM	1776	CG	LYS	1137	66.752	16.085	43.335		59.40
ATOM	1777	CD	LYS	1137	66.200	14.946	44.202		61.81
ATOM	1778	CE	LYS	1137	67.283	14.106	44.877	1.00	61.24
MOTA	1779	NZ	LYS	1137	67.937	13.174	43.915		62.70
MOTA	1780	С	LYS	1137	67.127	18.184	41.118		58.31
MOTA	1781	0	LYS	1137	68.158	18.691	41.563		58.65
MOTA	1782	N	ASP	1138	67.054	17.681 17.710	39.895		57.87 59.25
MOTA MOTA	1783 1784	CA CB	ASP ASP	1138 1138	68.199 67.901	16.867	39.002 37.767		60.76
ATOM	1785	CG	ASP	1138	67.797	15.389	38.089		63.70
ATOM	1786		ASP	1138	67.418	15.054	39.235		65.41
ATOM	1787		ASP	1138	68.082	14.560	37.199	1.00	64.28
MOTA	1788	C	ASP	1138	68.549	19.133	38.585	1.00	59.52
MOTA	1789	0	ASP	1138	69.717	19.518	38.587		60.68
MOTA	1790	N	ARG	1139	67.531	19.909	38.227		59.49
MOTA	1791	CA	ARG	1139	67.717	21.290	37.798		59.65
ATOM	1792	CB	ARG	1139	66.373	21.905	37.370		61.85 65.43
ATOM ATOM	1793 1794	CG CD	ARG ARG	1139 1139	65.632 66.249	21.141 21.344	36.270 34.888		68.42
MOTA	1794	NE	ARG	1139	67.539	22.011	34.868		72.10
ATOM	1133	1415	E/A	1433	07.333	22.011	24.300	1.00	, 0

ATOM	1796	CZ	ARG	1139	68.327	22.257	33.923	1.00	74.52
MOTA	1797	NH1	ARG	1139	67.954	21.886	32.699	1.00	74.57
MOTA	1798	NH2	ARG	1139	69.495	22.882	34.101	1.00	75.76
ATOM	1799	C	ARG	1139	68.316	22.126	38.922	1.00	58.60
MOTA	1800	0	ARG	1139	69.183	22.968	38.684	1.00	58.40
ATOM	1801	N	LYS	1140	67.838	21.892	40.140	1.00	
ATOM	1802	CA	LYS	1140	68.310	22.607	41.318		57.00
ATOM	1803	CB	LYS	1140	67.426	22.263	42.521		57.12
ATOM	1804	CG	LYS	1140	66.845	23.476	43.243	1.00	
ATOM	1805	CD	LYS	1140	67.925	24.290	43.949	1.00	
ATOM	1806	CE	LYS	1140	67.367	25.593	44.520	1.00	
ATOM	1807	NZ	LYS	1140	66.266	25.378	45.508		59.21
ATOM	1808	C	LYS	1140	69.763	22.229		1.00	
ATOM	1809	0	LYS		70.601		41.611		56.83
				1140		23.090	41.882		
ATOM	1810	N	ARG	1141	70.059	20.937	41.550		56.92
ATOM	1811	CA	ARG	1141	71.406	20.458	41.801		57.58
ATOM	1812	CB	ARG	1141	71.439	18.929	41.783	1.00	57.10
ATOM	1813	CG	ARG	1141	72.838	18.355	41.897	1.00	
ATOM	1814	CD	ARG	1141	72.835	16.843	41.984		56.00
MOTA	1815	NE	ARG	1141	72.201	16.206	40.832		55.05
ATOM	1816	CZ	ARG	1141	71.076	15.497	40.899		54.50
ATOM	1817	NH1	ARG	1141	70.454	15.335	42.066		54.03
MOTA	1818	NH2		1141	70.575	14.944	39.803	1.00	52.56
MOTA	1819	С	ARG	1141	72.381	21.008	40.767	1.00	58.54
ATOM	1820	0	ARG	1141	73.462	21.480	41.121	1.00	58.10
MOTA	1821	N	GLU	1142	71.999	20.941	39.494	1.00	59.45
ATOM	1822	CA	GLU	1142	72.836	21.434	38.401	1.00	60.83
MOTA	1823	CB	GLU	1142	72.088	21.275	37.076	1.00	63.74
MOTA	1824	CG	GLU	1142	72.970	21.096	35.844	1.00	68.58
MOTA	1825	CD	GLU	1142	73.231	19.621	35.512	1.00	71.70
MOTA	1826	OE1	GLU	1142	73.925	19.343	34.503	1.00	71.17
MOTA	1827	OE2	GLU	1142	72.735	18.743	36.259	1.00	72.94
ATOM	1828	С	GLU	1142	73.155	22.918	38.627	1.00	59.87
ATOM	1829	0	GLU	1142	74.263	23.394	38.362	1.00	58.83
MOTA	1830	N	ASN	1143	72.160	23.643	39.122	1.00	59.11
MOTA	1831	CA	ASN	1143	72.292	25.065	39.392		58.19
ATOM	1832	CB	ASN	1143	70.918	25.653	39.749	1.00	57.40
MOTA	1833	CG	ASN	1143	70.991	27.109	40.186		56.74
MOTA	1834	OD1	ASN	1143	71.028	27.413	41.379	1.00	
MOTA	1835	ND2	ASN	1143	71.015	28.016	39.218	1.00	
ATOM	1836	С	ASN	1143	73.273	25.286	40.529	1.00	
ATOM	1837	0	ASN	1143	74.110	26.182	40.464		57.67
MOTA	1838	N	LEU	1144	73.162	24.461	41.568	1.00	
MOTA	1839	CA	LEU	1144	74.028	24.553	42.741		60.10
ATOM	1840	CB	LEU	1144	73.559	23.572	43.806		57.82
MOTA	1841	CG	LEU	1144	72.314	24.061	44.532		56.94
ATOM	1842	CD1		1144	71.733	22.965	45.402		55.86
ATOM	1843	CD2		1144	72.695	25.279	45.362		56.29
ATOM	1844	С	LEU	1144	75.506	24.319	42.453		62.45
ATOM	1845	0	LEU	1144	76.366	24.842	43.157		62.61
MOTA	1846	N	GLU	1145	75.801	23.545	41.419		65.46
ATOM	1847	CA	GLU	1145	77.182	23.259	41.061		69.86
ATOM	1848	CB	GLU	1145	77.276	21.874	40.430		69.16
ATOM	1849	CG	GLU	1145	76.688	20.785	41.297		70.50
ATOM	1850	CD	GLU	1145	76.561	19.468	40.560		
ATOM	1851	OE1		1145	75.820	19.468	39.549		72.52
ATOM	1852	OE2	GLU	1145					
ATOM	1853	C	GLU	1145	77.202	18.484	40.990		73.82
ATOM	1854	0	GLU	1145	77.762	24.296	40.095		72.44
ATOM	1855	N	HIS		78.869	24.114	39.571		73.12
ATOM	1856	CA	HIS	1146 1146	77.031	25.384	39.859		75.49
ATOM	1857	CB	HIS		77.519	26.425	38.941		79.39
ATON	1037	CD	uro	1146	76.374	27.320	38.427	1.00	80.38

ATOM	1858	CG	HIS	1146	75.601	26.736	37.279		81.30
ATOM	1859	CD2		1146	75.833	25.647	36.500	1.00	82.09
ATOM	1860	ND1		1146	74.398	27.271	36.846	1.00	81.56
ATOM	1861	CE1		1146	73.919	26.532	35.857		81.80
ATOM	1862	NE2		1146	74.768	25.539	35.626		82.53
ATOM	1863	С	HIS	1146	78.553	27.325	39.619		81.53
ATOM	1864	0	HIS	1146	78.939	27.106	40.787		81.98
ATOM	1865	N	HIS	1147	78.985	28.337	38.862		83.97
ATOM	1866	CA	HIS	1147	79.961	29.336	39.305		85.96
ATOM ATOM	1867	CB	HIS	1147	81.388	28.759	39.238		86.98
ATOM	1868	CG	HIS HIS	1147	81.641	27.920	38.022		89.24
ATOM	1869 1870		HIS	1147	82.264	26.720	37.877		89.74
ATOM	1871		HIS	1147 1147	81.227	28.296	36.754		90.24
ATOM	1872		HIS	1147	81.585 82.216	27.361 26.394	35.882		90.34
ATOM	1873	C	HIS	1147	79.836	30.551	36.536 38.364		90.16
ATOM	1874	0	HIS	1147	79.089	30.331	37.348		86.45 86.65
ATOM	1875		HIS	1147	80.478	31.612	38.638	1.00	
ATOM	1906	ZN+2	ZN2	1300	54.120	17.502	37.808	1.00	
ATOM	1	СВ	ASP	2039	28.874	29.016	11.684	1.00	
ATOM	2	CG	ASP	2039	29.988	28.336	12.479	1.00	
MOTA	3	OD1	ASP	2039	30.962	27.853	11.857		68.36
ATOM	4	OD2	ASP	2039	29.886	28.278	13.721		70.30
MOTA	5	C	ASP	2039	28.237	30.893	13.214		69.71
MOTA	6	0	ASP	2039	27.971	31.979	12.687		70.09
MOTA	7	N	ASP	2039	26.531	29.842	11.773	1.00	70.21
MOTA	8	CA	ASP	2039	27.764	29.587	12.579	1.00	70.16
ATOM	9	N	GLU	2040	28.924	30.787	14.350	1.00	68.66
ATOM	10	CA	GLU	2040	29.434	31.965	15.046	1.00	67.27
ATOM	11	CB	GLU	2040	28.286	32.726	15.725		69.13
MOTA MOTA	12 13	CG	GLU	2040	27.055	31.891	16.074		73.34
ATOM	13	CD OE1	GLU GLU	2040	27.199	31.089	17.361	1.00	76.70
ATOM	15	OE1	GLU	2040 2040	27.384	31.707	18.434	1.00	77.69
ATOM	16	C	GLU	2040	27.116 30.549	29.841 31.686	17.303 16.053		78.70 64.60
ATOM	17	Ö	GLU	2040	30.754	30.554	16.486		63.65
ATOM	18	N	LEU	2041	31.273	32.744	16.404		62.33
ATOM	19	CA	LEU	2041	32.387	32.673	17.342		60.05
MOTA	20	CB	LEU	2041	33.273	33.916	17.218		59.92
ATOM	21	CG	LEU	2041	34.085	34.130	15.944		60.42
MOTA	22	CD1	LEU	2041	34.790	35.478	16.031	1.00	60.03
MOTA	23		LEU	2041	35.096	33.002	15.774	1.00	60.26
ATOM	24	C	LEU	2041	31.951	32.562	18.791		58.41
MOTA	25	0	LEU	2041	31.090	33.315	19.251		58.19
ATOM ATOM	26 27	N CA	ILE	2042	32.550	31.622	19.513		55.99
ATOM	28	CB	ILE	2042 2042	32.246 31.740	31.470	20.923		53.15
ATOM	29	CG2	ILE	2042	30.395	30.049 29.793	21.270		53.72
ATOM	30	CG1	ILE	2042	32.749	29.793	20.602 20.825		53.90 53.56
ATOM	31		ILE	2042	32.274	27.598	21.081		54.40
MOTA	32	С	ILE	2042	33.529		21.683		51.19
ATOM	33	0	ILE	2042	34.623	31.446	21.206		50.52
ATOM	34	N	VAL	2043	33.386	32.370	22.849		48.59
ATOM	35	CA	VAL	2043	34.518	32.700	23.694		46.67
MOTA	36	CB	VAL	2043	34.359	34.091	24.298	1.00	45.09
ATOM	37	CG1		2043	35.518	34.383	25.241	1.00	43.49
ATOM	38	CG2		2043	34.277	35.104	23.197		43.23
ATOM	39	C	VAL	2043	34.655	31.693	24.837		46.20
MOTA MOTA	40 41	O N	VAL	2043	33.729	31.472	25.607		45.96
ATOM	41	N CA	LEU	2044 2044	35.822	31.081	24.930		45.72
ATOM	43	CB	LEU	2044	36.096 36.651	30.109 28.832	25.973		43.98
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ATOM	44	CG	LEU	2044	35.623	28.190	24.403	1.00	45.81
MOTA	45	CD1	LEU	2044	36.298	27.307	23.368	1.00	47.40
ATOM	46	CD2	LEU	2044	34.629	27.395	25.241	1.00	46.63
MOTA	47	С	LEU	2044	37.112	30.731	26.923	1.00	41.96
ATOM	48	Ō	LEU	2044	38.313	30.692	26.671		41.75
ATOM	49	N	ASN	2045		31.340	27.994		39.44
					36.624				
MOTA	50	CA	ASN	2045	37.505	31.958	28.967		38.57
MOTA	51	CB	ASN	2045	36.742	32.975	29.817		36.89
MOTA	52	CG	ASN	2045	37.647	33.716	30.791	1.00	39.46
MOTA	53	OD1	ASN	2045	38.692	33.204	31.222	1.00	38.79
ATOM	54	ND2	ASN	2045	37.243	34.924	31.156	1.00	38.46
MOTA	55	С	ASN	2045	38.078	30.865	29.875	1.00	38.24
ATOM	56	0	ASN	2045	37.348	30.244	30.656		37.59
ATOM	57	N	VAL	2046	39.385	30.638	29.771		37.26
	58								
ATOM		CA	VAL	2046	40.054	29.624	30.580		36.19
ATOM	59	CB	VAL	2046	40.788	28.626	29.670	1.00	
MOTA	60	CG1	VAL	2046	41.418	27.484	30.507	1.00	
MOTA	61	CG2	VAL	2046	39.798	28.090	28.631	1.00	30.02
ATOM	62	С	VAL	2046	41.031	30.307	31.534	1.00	38.32
ATOM	63	0	VAL	2046	42.141	30.672	31.150	1.00	37.84
ATOM	64	N	SER	2047	40.598	30.479	32.780	1.00	40.58
ATOM	65	CA	SER	2047	41.399	31.143	33.801		42.58
ATOM	66	СВ	SER	2047	42.670	30.361	34.072		44.39
ATOM	67	OG	SER		42.328				50.88
				2047		29.144	34.703		
ATOM	68.	C	SER	2047	41.753	32.566	33.427		43.26
MOTA	69	0	SER	2047	42.816	33.067	33.801		44.87
ATOM	70	N	GLY	2048	40.861	33.219	32.689		43.21
MOTA	71	CA	GLY	2048	41.105	34.592	32.293	1.00	44.14
ATOM	72	С	GLY	2048	41.690	34.729	30.904	1.00	44.57
ATOM	73	0	GLY	2048	41.657	35.810	30.330	1.00	44.13
ATOM	74	N	ARG	2049	42.234	33.642	30.367	1.00	45.32
MOTA	75	CA	ARG	2049	42.814	33.654	29.029		46.66
ATOM	76	СВ	ARG	2049	43.966	32.644	28.948		49.65
ATOM	77	CG	ARG	2049	45.103	32.937			55.75
							29.953		
MOTA	78	CD	ARG	2049	45.953	34.173	29.562	1.00	
MOTA	79	NE	ARG	2049	46.766	33.913	28.368		62.73
ATOM	80	CZ	ARG	2049	47.777	33.037	28.303		64.10
MOTA	81	NH1	ARG	2049	48.133	32.316	29.369	1.00	61.18
MOTA	82	NH2	ARG	2049	48.431	32.868	27.155	1.00	64.18
MOTA	83	С	ARG	2049	41.680	33.282	28.087	1.00	46.66
ATOM	84	0	ARG	2049	41.175	32.160	28.126	1.00	46.65
MOTA	85	N	ARG	2050	41.275	34.226	27.242	1.00	46.57
MOTA	86	CA	ARG	2050	40.155	33.986	26.346		47.08
ATOM	87	CB	ARG	2050	39.319	35.261	26.216		49.59
ATOM	88	CG	ARG	2050	38.693	35.683	27.545		54.03
ATOM	89	CD	ARG	2050	37.981	37.015	27.455		58.12
ATOM	90	NE	ARG	2050	37.657	37.545	28.782		64.32
MOTA	91	CZ	ARG	2050	38.561	37.804	29.728		66.71
MOTA	92		ARG	2050	39.851	37.581	29.496		67.42
ATOM	93		ARG	2050	38.179	38.292	30.906	1.00	66.06
MOTA	94	C	ARG	2050	40.465	33.430	24.977	1.00	45.72
MOTA	95	0	ARG	2050	41.164	34.035	24.174	1.00	48.18
ATOM	96	N	PHE	2051	39.917	32.256	24.722	1.00	42.53
ATOM	97	CA	PHE	2051	40.095	31.586	23.458		41.07
ATOM	98	СВ	PHE	2051	40.334	30.099	23.706		39.97
ATOM	99	CG	PHE	2051	41.629	29.804	24.392		38.27
ATOM	100		PHE						
				2051	42.775	29.522	23.649		36.74
ATOM	101		PHE	2051	41.704	29.779	25.791		37.97
MOTA	102		PHE	2051	43.983	29.210	24.286		37.47
MOTA	103		PHE	2051	42.901	29.470	26.443		38.16
MOTA	104	CZ	PHE	2051	44.047	29.181	25.685	1.00	37.64
MOTA	105	C	PHE	2051	38.839	31.773	22.622	1.00	40.85

MOTA	106	0	PHE	2051		740	31.896	23.153	1.00 41.29
ATOM	107	N	GLN	2052	38.	998	31.816	21.313	1.00 41.27
ATOM	108	CA	GLN	2052	37.	847	31.951	20.443	1.00 43.58
ATOM	109	CB	GLN	2052	37.	787	33.334	19.799	1.00 44.18
ATOM	110	CG	GLN	2052	37.	543	34.464	20.788	1.00 48.74
ATOM	111	CD	GLN	2052		.374	35.799	20.095	1.00 50.39
ATOM	112	OE1	GLN	2052	36.	.352	36.047	19.458	1.00 50.70
ATOM	113	NE2	GLN	2052	38.	.386	36.662	20.202	1.00 50.50
MOTA	114	С	GLN	2052	37.	.910	30.893	19.363	1.00 44.60
MOTA	115	0	GLN	2052		.989	30.497	18.906	1.00 45.28
ATOM	116	N	THR	2053		.744	30.422	18.962	1.00 43.67
ATOM	117	CA	THR	2053		.696	29.430	17.926	1.00 44.06
MOTA	118	CB	THR	2053		.027	28.045	18.489	1.00 43.23 1.00 42.30
ATOM	119	OG1	THR	2053		.014	27.089	17.428	1.00 42.30
MOTA	120	CG2	THR	2053		.010	27.638	19.554	
ATOM	121	С	THR	2053		.300	29.458	17.343	1.00 45.23 1.00 44.70
MOTA	122	0	THR	2053		.443	30.214	17.804	1.00 47.63
MOTA	123	N	TRP	2054		.079	28.654	16.314	1.00 47.03
MOTA	124	CA	TRP	2054		.774	28.585	15.685	1.00 50.34
MOTA	125	CB	TRP	2054		.910	28.249	14.197	1.00 52.92
MOTA	126	CG	TRP	2054		.575	29.328	13.414	1.00 52.92
ATOM	127	CD2	TRP	2054		.006	30.588	13.042	1.00 54.69
MOTA	128	CE2	TRP	2054		.008	31.312	12.358 13.221	1.00 54.86
MOTA	129	CE3	TRP	2054		.746	31.177		1.00 53.32
MOTA	130	CD1	TRP	2054		.858	29.335		1.00 54.02
MOTA	131	NE1	TRP	2054		.128	30.523		1.00 54.65
MOTA	132	CZ2	TRP	2054		.788	32.605		1.00 55.23
MOTA	133	CZ3	TRP	2054		.525	32.463		1.00 55.06
ATOM	134	CH2		2054		.545	33.161		1.00 51.83
ATOM	135	С	TRP	2054		.953	27.517		1.00 51.03
MOTA	136	0	TRP	2054		.456	26.429		1.00 53.95
ATOM	137	N	ARG	2055		691	27.838		1.00 55.48
MOTA	138	CA	ARG	2055		.795	26.896 27.385		1.00 57.33
MOTA	139	CB	ARG	2055		3.342	26.310		1.00 59.98
MOTA	140	CG	ARG	2055		3.300 5.864	26.856		1.00 63.12
ATOM	141	CD	ARG	2055 2055		5.469	27.448		1.00 65.32
MOTA	142	NE	ARG			5.393	26.785		1.00 66.97
MOTA	143	CZ	ARG	2055		5.682	25.487		1.00 67.43
MOTA	144		ARG	2055		5.033	27.425		1.00 67.22
MOTA	145	NH2		2055		0.908	25.536		1.00 54.89
MOTA	146	C	ARG	2055		3.908	24.52		1.00 55.46
ATOM	147	0	ARG	2055		1.056	25.51		1.00 54.45
ATOM	148	N	THR	2056		1.153	24.24		
MOTA	149	CA	THR	2056 2056		0.914	24.42		
MOTA	150		THR L THR	2056		1.814			
MOTA	151		2 THR	2056		9.472	24.85		
ATOM	152 153		THR	2056		2.473	23.51		
MOTA	154		THR	2056		2.554			
MOTA	155		THR	2057		3.504			
MOTA MOTA	156		THR	2057		4.813			
	157		THR	2057		5.877			
MOTA MOTA	158					5.884		_	
	159					7.272			
MOTA MOTA	160		THR			4.694			
MOTA	161		THR			5.203			
ATOM	162		LEU			4.008			1.00 57.75
ATOM	163					3.830			1.00 59.55
MOTA	164					3.259			
ATOM	165					4.047			1.00 56.39
MOTA	166		1 LEU			3.488			1.00 53.83
ATOM	167		2 LEU			5.526			
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ATOM	168	С	LEU	2058	32.902	21.017	18.536	1.00	62.01
MOTA	169	0	LEU	2058	33.121	19.889	18.980	1.00	63.28
ATOM	170	N	GLU	2059	31.875	21.297	17.740	1.00	64.08
ATOM	171	CA	GLU	2059	30.892	20.290	17.373	1.00	66.29
ATOM	172	CB	GLU	2059	29.757	20.951	16.599	1.00	66.26
ATOM	173	CG	GLU	2059	29.183	22.140	17.332	1.00	67.32
ATOM	174	CD	GLU	2059	27.971	22.734	16.647		68.99
ATOM	175	OE1	GLU	2059	28.030	22.988	15.419		68.90
	176	OE2	GLU	2059	26.957	22.956	17.348		69.85
ATOM							16.583		67.79
ATOM	177	C	GLU	2059	31.446	19.110			
ATOM	178	0	GLU	2059	30.738	18.132	16.356		68.37
ATOM	179	N	ARG	2060	32.708	19.192	16.176		69.04
ATOM	180	CA	ARG	2060	33.324	18.114	15.413		70.72
MOTA	181	CB	ARG	2060	34.651	18.579	14.807		71.87
MOTA	182	CG	ARG	2060	34.490	19.686	13.787		73.32
ATOM	183	CD	ARG	2060	35.819	20.250	13.348	1.00	75.03
MOTA	184	NE	ARG	2060	35.644	21.257	12.306	1.00	77.17
ATOM	185	CZ	ARG	2060	36.640	21.947	11.755	1.00	78.54
ATOM	186	NH1	ARG	2060	37.891	21.744	12.150	1.00	78.65
ATOM	187	NH2		2060	36.387	22.833	10.798	1.00	78.46
MOTA	188	С	ARG	2060	33.556	16.884	16.277		71.31
MOTA	189	0	ARG	2060	33.922	15.819	15.769		71.43
			TYR	2061	33.340	17.029	17.581		71.73
ATOM	190	N							
ATOM	191	CA	TYR	2061	33.535	15.917	18.501		72.66
MOTA	192	CB	TYR	2061	34.938	15.958	19.103		72.57
ATOM	193	CG	TYR	2061	36.030	15.655	18.110		73.77
MOTA	194	CD1	TYR	2061	36.255	14.350	17.671		73.63
ATOM	195	CE1	TYR	2061	37.227	14.071	16.716	1.00	73.83
ATOM	196	CD2	TYR	2061	36.811	16.679	17.568	1.00	73.93
ATOM	197	CE2	TYR	2061	37.787	16.410	16.610	1.00	74.56
ATOM	198	CZ	TYR	2061	37.988	15.104	16.188	1.00	74.41
ATOM	199	ОН	TYR	2061	38.947	14.831	15.240	1.00	74.86
ATOM	200	C	TYR	2061	32.521	15.889	19.624		73.44
ATOM	201	0	TYR	2061	32.778	16.404	20.710		73.83
	202	N	PRO	2062	31.341	15.301	19.374		74.36
ATOM							18.076		74.45
ATOM	203	CD	PRO	2062	30.774	14.899			
MOTA	204	CA	PRO	2062	30.325	15.233	20.425		74.56
ATOM	205	CB	PRO	2062	29.121	14.651	19.695		74.72
ATOM	206	CG	PRO	2062	29.310	15.158	18.293		74.36
MOTA	207	C	PRO	2062	30.877	14.289	21.482	1.00	74.64
ATOM	208	0	PRO	2062	32.028	13.886	21.389		75.75
MOTA	209	N	ASP	2063	30.069	13.935	22.474	1.00	74.48
ATOM	210	CA	ASP	2063	30.492	13.026	23.547	1.00	74.84
ATOM	211	CB	ASP	2063	30.963	11.674	22.972	1.00	75.88
ATOM	212	CG	ASP	2063	32.457	11.643	22.680		77.77
ATOM	213		ASP	2063	32.829	11.538	21.488	1.00	79.08
ATOM	214		ASP	2063	33.260	11.724	23.641		78.37
ATOM	215	C	ASP	2063	31.576	13.602	24.476		73.47
ATOM		0			31.644				74.20
	216		ASP	2063		13.227	25.655		
ATOM	217	N	THR	2064	32.427	14.489	23.953		70.48
MOTA	218	CA	THR	2064	33.469	15.116	24.771		67.40
MOTA	219	CB	THR	2064	34.695	15.543	23.941		66.93
MOTA	220	OG1		2064	34.339	16.641	23.099		66.37
MOTA	221	CG2	THR	2064	35.194	14.388	23.084		66.49
MOTA	222	C	THR	2064	32.837	16.364	25.376		65.32
ATOM	223	0	THR	2064	31.930	16.948	24.792	1.00	65.05
ATOM	224	N	LEU	2065	33.314	16.774	26.542	1.00	63.11
ATOM	225	CA	LEU	2065	32.761	17.935	27.226	1.00	60.88
MOTA	226	CB	LEU	2065	33,708	18.345	28.354		60.61
ATOM	227	CG	LEU	2065	33.180	19.235	29.481		60.66
MOTA	228		LEU	2065	34.254	19.346	30.541		62.63
ATOM	229		LEU	2065	32.812	20.610	28.974		60.02
ATON	443	CD2	neo	2003	32.012	20.010	20.3/4	1.00	00.02

MOTA	230	С	LEU	2065	32.466	19.138	26.318	1.00	59.36
MOTA	231	0	LEU	2065	31.342	19.642	26.289	1.00	58.80
ATOM	232	N	LEU	2066	33.476	19.583	25.575	1.00	58.17
ATOM	233	CA	LEU	2066	33.358	20.745	24.692		58.28
	234		LEU	2066	34.753	21.203	24.258		56.64
ATOM		CB							55.41
ATOM	235	CG	LEU	2066	35.673	21.682	25.381		
MOTA	236		LEU	2066	37.061	21.939	24.817		53.95
MOTA	237	CD2	LEU	2066	35.091	22.934	26.035	1.00	52.67
ATOM	238	С	LEU	2066	32.484	20.577	23.452	1.00	58.89
ATOM	239	0	LEU	2066	31.822	21.524	23.027	1.00	58.11
ATOM	240	N	GLY	2067	32.504	19.384	22.863	1.00	59.32
ATOM	241	CA	GLY	2067	31.698	19.131	21.682		60.19
ATOM	242	C	GLY	2067	30.293	18.704	22.067		60.82
							21.223		61.20
ATOM	243	0	GLY	2067	29.505	18.273			
ATOM	244	N	SER	2068	29.990	18.828	23.357		60.66
MOTA	245	CA	SER	2068	28.691	18.466	23.905		60.28
MOTA	246	CB	SER	2068	28.842	17.481	25.055	1.00	59.39
ATOM	247	OG	SER	2068	29.253	16.226	24.571	1.00	63.29
ATOM	248	С	SER	2068	27.991	19.679	24.442	1.00	60.43
ATOM	249	0	SER	2068	28.469	20.806	24.322	1.00	61.17
ATOM	250	N	THR	2069	26.844	19.430	25.051	1.00	60.08
ATOM	251	CA	THR	2069	26.070	20.494	25.650		59.06
			THR	2069	24.568		25.622		59.73
ATOM	252	CB				20.175			
ATOM	253	OG1	THR	2069	24.348	18.859	26.156		60.24
MOTA	254	CG2	THR	2069	24.035	20.262	24.186		59.10
MOTA	255	C	THR	2069	26.539	20.611	27.085	1.00	57.91
MOTA	256	0	THR	2069	26.085	21.485	27.819	1.00	57.87
MOTA	257	N	GLU	2070	27.452	19.725	27.480	1.00	57.31
MOTA	258	CA	GLU	2070	27.992	19.753	28.836	1.00	57.47
ATOM	259	CB	GLU	2070	28.953	18.591	29.067		59.18
ATOM	260	CG	GLU	2070	28.315	17.236	28.955		63.22
	261	CD	GLU	2070		16.151	29.572		66.76
MOTA					29.171				
MOTA	262	OE1	GLU	2070	30.341	16.000	29.154		68.38
MOTA	263	OE2	GLU	2070	28.672	15.448	30.478		68.76
MOTA	264	С	GLU	2070	28.723	21.064	29.107		55.73
ATOM	265	0	GLU	2070	28.692	21.578	30.221	1.00	55.19
ATOM	266	N	LYS	2071	29.388	21.602	28.091	1.00	54.75
ATOM	267	CA	LYS	2071	30.097	22.861	28.265	1.00	54.14
MOTA	268	CB	LYS	2071	30.793	23.272	26.958	1.00	54.23
ATOM	269	CG	LYS	2071	29.868	23.520	25.776		53.85
ATOM	270	CD	LYS	2071	30.627	24.196	24.636		52.55
ATOM	271	CE	LYS	2071	29.807	24.273	23.354		51.71
			LYS				22.850		49.96
ATOM	272	NZ		2071	29.422	22.927			
ATOM	273	C	LYS	2071	29.110	23.944	28.703		53.14
ATOM	274	0	LYS	2071	29.471	24.887	29.415		52.24
ATOM	275	N	GLU	2072	27.857	23.782	28.290	1.00	52.94
ATOM	276	CA	GLU	2072	26.794	24.729	28.614		53.32
ATOM	277	CB	GLU	2072	25.466	24.221	28.045	1.00	54.50
ATOM	278	CG	GLU	2072	24.706	25.253	27.212	1.00	57.37
ATOM	279	CD	GLU	2072	25.537	25.824	26.062	1.00	59.11
ATOM	280		GLU	2072	25.666	27.069	25.990		59.34
ATOM	281		GLU	2072	26.055	25.033	25.236		59.00
ATOM	282	C	GLU	2072	26.638	25.039	30.107		52.40
				2072					53.44
ATOM	283	0	GLU		26.049	26.057	30.473		
ATOM	284	N	PHE	2073	27.166	24.174	30.968		51.08
ATOM	285	CA	PHE	2073	27.075	24.382	32.414		50.78
ATOM	286	CB	PHE	2073	27.141	23.038	33.144		50.26
ATOM	287	CG	PHE	2073	25.975	22.145	32.858		49.79
ATOM	288	CD1	PHE	2073	24.687	22.516	33.245	1.00	49.48
MOTA	289	CD2	PHE	2073	26.151	20.945	32.173		50.37
ATOM	290	CE1	PHE	2073	23.588	21.703	32.950	1.00	48.27
ATOM	291		PHE	2073	25.055	20.121	31.870		50.17
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ATOM	292	CZ	PHE	2073	23.771	20.504	32.261	1.00	
ATOM	293	C	PHE	2073	28.184	25.292	32.923	1.00	
MOTA	294	0	PHE	2073	28.198	25.685	34.093	1.00	
MOTA	295	N	PHE	2074	29.120	25.607	32.032	1.00	
MOTA	296	CA	PHE	2074	30.248	26.470	32.354	1.00	
MOTA	297	CB	PHE	2074	31.549	25.858	31.823 32.539	1.00	
MOTA	298	CG	PHE	2074	31.954	24.607 24.674	33.698	1.00	
ATOM	299	CD1	PHE	2074	32.724 31.500	23.364	32.104		44.31
ATOM	300	CD2 CE1	PHE PHE	2074 2074	33.031	23.523	34.417		43.89
ATOM	301 302	CE2	PHE	2074	31.801	22.206	32.816	1.00	
ATOM ATOM	302	CZ	PHE	2074	32.566	22.286	33.976	1.00	
ATOM	304	C	PHE	2074	29.981	27.803	31.690	1.00	
ATOM	305	Ō	PHE	2074	30.677	28.794	31.933	1.00	50.58
ATOM	306	N	PHE	2075	28.952	27.817	30.849	1.00	55.76
ATOM	307	CA	PHE	2075	28.581	29.029	30.144	1.00	60.10
ATOM	308	CB	PHE	2075	27.583	28.730	29.035	1.00	60.98
ATOM	309	CG	PHE	2075	27.316	29.903	28.140	1.00	62.93
ATOM	310	CD1	PHE	2075	28.263	30.302	27.195	1.00	63.22
ATOM	311	CD2	PHE	2075	26.117	30.609	28.234	1.00	62.80
ATOM	312	CE1	PHE	2075	28.018	31.387	26.353	1.00	63.93
MOTA	313	CE2	PHE	2075	25.860	31.693	27.401		63.01
ATOM	314	CZ	PHE	2075	26.812	32.084	26.456		63.85
ATOM	315	С	PHE	2075	27.965	30.040	31.091		62.23
MOTA	316	0	PHE	2075	27.030	29.730	31.826		63.07
MOTA	317	N	ASN	2076	28.510	31.246	31.079		64.68
MOTA	318	CA	ASN	2076	27.996	32.317	31.908		66.67
MOTA	319	CB	ASN	2076	29.132	33.233	32.340		66.15
MOTA	320	CG	ASN	2076	28.644	34.400	33.154		66.86
MOTA	321	OD1	ASN	2076	27.592	34.967	32.859		66.78
MOTA	322		ASN	2076	29.404	34.777	34.178		66.43
ATOM	323	C	ASN	2076	27.006	33.079	31.025		68.71 69.24
ATOM	324	0	ASN	2076	27.248	33.263	29.834		70.45
ATOM	325	N	GLU	2077	25.891	33.517 34.228	31.598 30.817		72.19
ATOM	326	CA	GLU	2077	24.886 23.483	34.228	31.358		74.36
ATOM	327 328	CB CG	GLU GLU	2077 2077	22.872	32.634	30.804		76.69
ATOM	329	CD	GLU	2077	22.488	32.758	29.333		79.10
ATOM ATOM	330		GLU	2077	22.821	33.796	28.715		79.73
ATOM	331	OE1	GLU	2077	21.856	31.819	28.792		80.26
ATOM	332	C	GLU	2077	25.087	35.736	30.730		72.07
ATOM	333	Ö	GLU	2077	24.696	36.352	29.735		71.46
ATOM	334		ASP		25.692		31.757		71.94
ATOM	335	CA	ASP	2078	25.917	37.775	31.745	1.00	71.95
ATOM	336	CB	ASP	2078	26.010	38.338	33.180	1.00	74.09
ATOM	337	CG	ASP	2078	27.156	37.738	33.994	1.00	76.55
ATOM	338	OD1	ASP	2078	27.066	36.552	34.376	1.00	77.76
ATOM	339	OD2	ASP	2078	28.145	38.458	34.265	1.00	76.77
MOTA	340	C	ASP	2078	27.137	38.201	30.912		70.92
ATOM	341	0	ASP	2078	27.042	39.134	30.119	1.00	71.45
ATOM	342	N	THR	2079	28.273	37.527	31.077		68.89
MOTA	343	CA	THR	2079	29.461	37.869	30.297		66.93
MOTA	344	CB	THR	2079	30.756	37.384	30.979		67.02
MOTA	345		THR	2079	30.737	35.956	31.080		66.18
MOTA	346		THR	2079	30.888	37.985	32.369		66.05
MOTA	347	С	THR	2079	29.363	37.211	28.923		65.69
MOTA	348	0	THR	2079	30.145	37.507	28.023		65.59
MOTA	349	N	LYS	2080	28.390	36.316	28.780		64.28
ATOM	350	CA	LYS	2080	28.138		27.537		63.28
ATOM	351	CB	LYS	2080	27.645		26.449		65.55
ATOM	352	CG	LYS	2080	26.389		26.814		68.59
MOTA	353	CD	LYS	2080	25.974	38.241	25.672	1.00	71.40

ATOM	354	CE	LYS	2080	24.909	39.232	26.112	1.00 72.80
ATOM	355	NZ	LYS	2080	25.377	40.088	27.254	1.00 74.44
MOTA	356	С	LYS	2080	29.332	34.798	27.009	1.00 60.94
MOTA	357	0	LYS	2080	29.527	34.691	25.804	1.00 61.65
MOTA	358	N	GLU	2081	30.125	34.238	27.914	1.00 58.53
MOTA	359	CA	GLU	2081	31.296	33.446	27.540	1.00 55.25
ATOM	360	CB	GLU	2081	32.566	34.300	27.645	1.00 55.98
ATOM	361	CG	GLU	2081	32.674	35.023	28.977	1.00 57.85
ATOM	362	CD	GLU	2081	33.967	35.800	29.154	1.00 60.26
ATOM	363	OE1	GLU	2081	34.376	36.521	28.213	1.00 59.52
ATOM	364	OE2	GLU	2081	34.560	35.701	30.256	1.00 60.66
ATOM	365	С	GLU	2081	31.413	32.246	28.477	1.00 52.16
ATOM	366	0	GLU	2081	30.981	32.304	29.629	1.00 50.02
MOTA	367	N	TYR	2082	31.984	31.156	27.984	1.00 49.44
MOTA	368	CA	TYR	2082	32.169	29.975	28.818	1.00 47.50
ATOM	369	CB	TYR	2082	32.456	28.751	27.965	1.00 47.89
MOTA	370	CG	TYR	2082	31.357	28.381	27.018	1.00 49.75
MOTA	371	CD1	TYR	2082	31.349	28.856	25.711	1.00 49.95
MOTA	372	CE1	TYR	2082	30.354	28.464	24.814	1.00 51.85
MOTA	373	CD2	TYR	2082	30.339	27.512	27.417	1.00 50.36
ATOM	374	CE2	TYR	2082	29.342	27.115	26.536	1.00 51.53
MOTA	375	CZ	TYR	2082	29.354	27.590	25.236	1.00 52.93
MOTA	376	ОН	TYR	2082	28.377	27.175	24.361	1.00 53.43
ATOM	377	C	TYR	2082	33.362	30.203	29.735	1.00 45.30
MOTA	378	0	TYR	2082	34.365	30.761	29.307	1.00 44.28
ATOM	379	N	PHE	2083	33.257	29.799	30.997	1.00 43.88
ATOM	380	CA	PHE	2083	34.388	29.963	31.895	1.00 43.34
MOTA	381	CB	PHE	2083	34.061	30.883	33.067	1.00 41.69
ATOM	382	CG	PHE	2083	35.269	31.227	33.890	1.00 43.65
ATOM	383	CD1	PHE	2083	36.230	32.112	33.395	1.00 43.82
MOTA	384	CD2		2083	35.518	30.576	35.096	1.00 42.56
ATOM	385	CE1	PHE	2083	37.430	32.331	34.087	1.00 43.59
ATOM	386		PHE	2083	36.710	30.784	35.796	1.00 42.94
ATOM	387	CZ	PHE	2083	37.673	31.663	35.290	1.00 43.27
ATOM	388	C	PHE	2083	34.893	28.622	32.434	1.00 43.66
ATOM	389	0	PHE	2083	34.115	27.776	32.857	1.00 43.24
ATOM	390	N	PHE	2084	36.209	28.439	32.397	1.00 44.42
ATOM	391	CA	PHE	2084	36.858	27.223	32.877	1.00 44.29
ATOM	392	CB	PHE	2084	37.394	26.423	31.697	1.00 43.29
MOTA	393	CG	PHE	2084	36.328	25.838	30.827	1.00 43.58
ATOM	394		PHE	2084	35.635	24.701	31.225	1.00 44.09
ATOM	395		PHE	2084	36.022	26.418	29.592	1.00 44.98
MOTA	396	CE1	PHE	2084	34.647	24.139	30.400	1.00 44.01
ATOM	397		PHE	2084	35.042	25.872	28.760	1.00 44.34
ATOM	398	CZ	PHE	2084	34.352	24.728	29.163	1.00 43.58
ATOM	399	C	PHE	2084	38.012	27.571	33.810	1.00 44.88
ATOM	400	0	PHE	2084	38.956		33.410	1.00 44.42
ATOM	401	N	ASP	2085	37.933	27.097	35.051	1.00 46.48
ATOM	402	CA	ASP	2085	38.983	27.341	36.046	1.00 47.88
ATOM	403	CB	ASP	2085	38.377	27.302	37.452	1.00 49.11
ATOM	404	CG	ASP	2085		× 28.073	38.480	
ATOM	405		ASP	2085	40.040	28.924	38.087	
ATOM	406		ASP	2085	39.008	27.843	39.697	1.00 56.62
ATOM	407		ASP	2085	40.054	26.252	35.889	1.00 47.44
MOTA	408	ō	ASP	2085	40.358		36.828	
ATOM	409		ARG		40.611		34.683	
ATOM	410		ARG		41.622			
ATOM	411		ARG		41.085			
ATOM	412		ARG		39.682			1.00 50.28
ATOM	413		ARG		39.620			1.00 51.97
ATOM	414		ARG		40.355			1.00 53.65
ATOM	415		ARG		40.227			

ATOM	416	NH1	ARG	2086	39.38	38 20	.488	36.311		55.40
MOTA	417	NH2	ARG	2086	40.93	38 19	388	35.021		55.06
MOTA	418	С	ARG	2086	42.87	74 25	008.	33.788	1.00	44.07
MOTA	419	0	ARG	2086	42.92	27 27	7.010	33.592		44.04
MOTA	420	N	ASP	2087	43.86	59 24	1.964	33.507	1.00	42.89
MOTA	421	CA	ASP	2087	45.13	35 25	5.401	32.922	1.00	41.09
MOTA	422	CB	ASP	2087	46.19		1.259	32.966	1.00	43.03
MOTA	423	CG	ASP	2087	47.3	97 24	1.552	32.145		46.61
MOTA	424	OD1	ASP	2087	48.0	77 25	5.568	32.419		49.17
MOTA	425	OD2	ASP	2087	47.6	99 23	3.765	31.220	1.00	48.42
ATOM	426	С	ASP	2087	44.8	98 25	5.836	31.466		38.83
ATOM	427	0	ASP	2087	44.4	07 25	5.072	30.648		36.58
MOTA	428	N	PRO	2088	45.2	46 27	7.081	31.131		39.18
MOTA	429	CD	PRO	2088	45.7	15 28	3.173	32.002		39.02
ATOM	430	CA	PRO	2088	45.0	34 27	7.545	29.762		40.36
ATOM	431	CB	PRO	2088	45.1		9.057	29.896		39.17
MOTA	432	CG	PRO	2088	46.1		9.238	31.010		40.19
ATOM	433	С	PRO	2088	45.9	77 26	5.988	28.705		43.06
MOTA	434	0	PRO	2088	45.6	53 2	7.014	27.518		43.51
ATOM	435	N	GLU	2089	47.1		5.466	29.122		46.23
ATOM	436	CA	GLU	2089	48.0	86 25	5.926	28.161		48.70
MOTA	437	CB	GLU	2089	49.4	78 25	5.850	28.773		52.38
MOTA	438	CG	GLU	2089	50.5		5.737	27.712		60.05
MOTA	439	CD	GLU	2089	50.6		5.977	26.814		64.01
MOTA	440	OE1	GLU	2089	50.9	89 20	5.833	25.613		64.50
ATOM	441	OE2	GLU	2089	50.3		3.093	27.317		64.30
ATOM	442	С	GLU	2089	47.7		4.556	27.596		48.12
MOTA	443	0	GLU	2089	47.8		4.311	26.399		48.45
MOTA	444	N	VAL	2090	47.2		3.657	28.442		46.79
MOTA	445	CA	VAL	2090	46.8		2.347	27.952		46.24
ATOM	446	CB	VAL	2090	46.6		1.318	29.105		46.23
MOTA	447	CG1		2090	46.0		0.030	28.603		46.75
ATOM	448	CG2		2090	48.0		0.995	29.643	1.00	
MOTA	449	C	VAL	2090	45.4		2.507	27.224		45.27
MOTA	450	0	VAL	2090	45.1		1.769	26.282		44.80
MOTA	451	N	PHE	2091	44.6		3.472	27.658		43.80
MOTA	452	CA	PHE	2091	43.4		3.707	26.972		43.18
MOTA	453	СВ	PHE	2091	42.6		4.860	27.602		42.97
MOTA	454	CG	PHE	2091	41.4		5.218	26.848		43.07
ATOM	455	CD1		2091	40.2		4.513	27.059		44.28
ATOM	456	CD2		2091	41.4		6.206	25.870	1.00	
ATOM	457		PHE	2091	39.0		4.781	26.305		45.69
ATOM	458	CE2		2091	40.3		6.482	25.106		44.59 45.12
ATOM	459	CZ	PHE	2091	39.1		5.765	25.324 25.515		42.61
ATOM	460	C	PHE	2091	43.7		4.065	24.584		38.82
ATOM	461	0	PHE	2091	43.0		3.716 4.778	25.331		44.18
ATOM	462	N	ARG	2092 2092	44.8		5.153	23.993		46.75
ATOM	463	CA	ARG		45.2 46.6		5.923	24.048		48.64
ATOM ATOM	464	CB	ARG	2092	47.1		6.367	22.688		51.36
ATOM	465 466	CG	ARG ARG	2092 2092	48.4		7.160	22.827		55.95
		CD					6.343	23.311		59.25
ATOM	467	NE CZ	ARG	2092	49.5		5.388	22.600		62.25
ATOM	468		ARG ARG	2092 2092	50.1 49.7		5.123	21.366		63.09
ATOM ATOM	469 470		ARG	2092	51.1		4.696	23.118		64.82
ATOM	471	C	ARG	2092	45.4		3.881	23.116		46.81
MOTA	472	0	ARG	2092	44.9		3.808	22.033		46.46
ATOM	473	N	CYS	2092	46.1		2.877	23.728		46.69
ATOM	474	CA	CYS	2093	46.3		1.631	23.003		48.63
ATOM	475	CB	CYS	2093	47.2		0.705	23.746		51.16
ATOM	476	SG	CYS	2093	48.9		1.245	23.580		63.04
ATOM	477	C	CYS	2093	44.9		0.919	22.749		46.44
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ATOM	478	0	CYS	2093	44.797	20.350	21.676	1.00	46.33
ATOM	479	N	VAL	2094	44.090	20.950	23.728	1.00	44.87
ATOM	480	CA	VAL	2094	42.790	20.307	23.568	1.00	44.26
ATOM	481	CB	VAL	2094	41.951	20.360	24.874	1.00	44.57
ATOM	482	CG1	VAL	2094	40.483	19.996	24.585	1.00	40.48
ATOM	483	CG2	VAL	2094	42.548	19.402	25.909	1.00	42.87
ATOM	484	С	VAL	2094	42.018	21.006	22.455	1.00	44.58
ATOM	485	0	VAL	2094	41.463	20.356	21.568	1.00	44.35
ATOM	486	N	LEU	2095	41.998	22.334	22.499	1.00	44.79
ATOM	487	CA	LEU	2095	41.301	23.113	21.492	1.00	44.66
ATOM	488	СВ	LEU	2095	41.408	24.596	21.820	1.00	43.14
ATOM	489	CG	LEU	2095	40.631	25.559	20.928	1.00	43.26
ATOM	490	CD1	LEU	2095	39.165	25.089	20.777	1.00	40.90
ATOM	491	CD2	LEU	2095	40.721	26.956	21.547	1.00	41.20
ATOM	492	С	LEU	2095	41.866	22.849	20.104	1.00	46.49
ATOM	493	0	LEU	2095	41.123	22.805	19.118	1.00	47.23
ATOM	494	N	ASN	2096	43.179	22.665	20.018	1.00	47.13
MOTA	495	CA	ASN	2096	43.790	22.408	18.726	1.00	49.47
ATOM	496	СВ	ASN	2096	45.308	22.554	18.809	1.00	52.19
ATOM	497	CG	ASN	2096	45.758	23.985	18.581	1.00	54.58
ATOM	498	OD1	ASN	2096	45.719	24.827	19.484	1.00	54.76
ATOM	499	ND2	ASN	2096	46.162	24.275	17.350	1.00	58.18
ATOM	500	C	ASN	2096	43.416	21.050	18.161	1.00	49.94
ATOM	501	0	ASN	2096	43.387	20.870	16.941		49.19
ATOM	502	N	PHE	2097	43.131	20.099	19.049		49.96
ATOM	503	CA	PHE	2097	42.724	18.762	18.636		50.35
ATOM	504	CB	PHE	2097	42.497	17.882	19.866	1.00	51.62
ATOM	505	CG	PHE	2097	41.704	16.634	19.582		52.11
ATOM	506		PHE	2097	42.216	15.642	18.740		52.16
ATOM	507		PHE	2097	40.432	16.466	20.131		52.05
ATOM	508	CE1	PHE	2097	41.476	14.501	18.446		52.31
ATOM	509		PHE	2097	39.679	15.327	19.846		53.04
MOTA	510	CZ	PHE	2097	40.200	14.341	19.001		52.62
ATOM	511	C	PHE	2097	41.426	18.881	17.828		49.93
ATOM	512	0	PHE	2097	41.213	18.165	16.851		48.91
ATOM	513	И	TYR	2098	40.565	19.800	18.244		49.49
ATOM	514	CA	TYR	2098	39.305	20.023	17.557		50.34
ATOM	515	CB	TYR	2098	38.394	20.926	18.387		50.24
ATOM	516	CG	TYR	2098	37.792	20.251	19.590		50.63
ATOM	517	CD1	TYR	2098	38.492	20.170	20.797		50.98
ATOM	518	CE1	TYR	2098	37.932	19.546	21.914		51.91
ATOM	519	CD2	TYR	2098	36.514	19.689	19.525		50.67
ATOM	520	CE2		2098	35.943	19.064	20.633		51.48
ATOM	521	CZ	TYR	2098	36.656	18.997	21.823		52.71
ATOM	522	OH	TYR	2098	36.088	18.389	22.916		55.26
MOTA	523	C	TYR	2098	39.494	20.648	16.180		50.43
ATOM	524	0	TYR	2098	38.704	20.405	15.268		50.73
ATOM	525	И	ARG	2099	40.541	21.451	16.035		50.90
ATOM	525 526	CA	ARG	2099	40.835	22.130	14.773		51.75
	527		ARG	2099	41.703	23.364	15.028		51.13
ATOM		CB	ARG	2099		24.480	15.740		50.10
ATOM	528 529	CG CD	ARG	2099	40.997 41.980	25.384	16.438		48.25
ATOM				2099	41.301	26.592	16.882		48.41
ATOM	530	NE CZ	ARG						47.23
ATOM	531		ARG ARG	2099	41.763	27.414	17.815		46.58
ATOM	532			2099	42.913 41.075	27.159	18.419		47.80
ATOM	533		ARG	2099		28.499	18.131		
MOTA	534	C	ARG	2099	41.552	21.264	13.752		52.77
ATOM	535	0	ARG	2099	41.294	21.368	12.557		53.69
ATOM	536	N	THR	2100	42.453	20.412	14.220		53.25
ATOM	537	CA	THR	2100	43.234	19.587	13.317		53.48
ATOM	538	CB	THR	2100	44.742	19.852	13.546		54.62
MOTA	539	OG I	THR	2100	45.156	19.280	14.795	1.00	55.54

MOTA	540	CG2	THR	2100	45.003	21.353	13.589	1.00	54.99
ATOM	541	С	THR	2100	42.983	18.083	13.387	1.00	53.45
ATOM	542	0	THR	2100	43.429	17.339	12.517	1.00	53.68
ATOM	543	N	GLY	2101	42.270	17.632	14.410		53.39
ATOM	544	CA	GLY	2101	42.025	16.209	14.540		52.22
					43.247	15.529	15.129		52.64
MOTA	545	C	GLY	2101					
MOTA	546	0	GLY	2101	43.232	14.330	15.391		52.67
MOTA	547	N	LYS	2102	44.320	16.291	15.326		53.00
ATOM	548	CA	LYS	2102	45.539	15.739	15.911	1.00	53.16
ATOM	549	CB	LYS	2102	46.774	16.143	15.104	1.00	54.41
ATOM	550	CG	LYS	2102	46.898	15.528	13.715	1.00	57.24
ATOM	551	CD	LYS	2102	46.165	16.355	12.654	1.00	59.87
ATOM	552	CE	LYS	2102	46.613	15.971	11.243		60.24
ATOM	553	NZ	LYS	2102	48.093	16.109	11.094		58.40
							17.354		52.43
ATOM	554	C	LYS	2102	45.718	16.225			
MOTA	555	0	LYS	2102	45.696	17.431	17.621		53.08
ATOM	556	N	LEU	2103	45.878	15.286	18.283		49.93
MOTA	557	CA	LEU	2103	46.085	15.639	19.679		47.95
MOTA	558	CB	LEU	2103	45.381	14.658	20.623	1.00	47.48
ATOM	559	CG	LEU	2103	45.602	14.962	22.116	1.00	46.43
ATOM	560	CD1	LEU	2103	45.060	16.346	22.438	1.00	43.47
ATOM	561		LEU	2103	44.934	13.902	22.979		45.43
ATOM	562	C	LEU	2103	47.575	15.579	19.912		46.50
			LEU	2103					46.46
ATOM	563	0			48.187	14.528	19.746		
ATOM	564	N	HIS	2104	48.157	16.712	20.282		45.24
ATOM	565	CA	HIS	2104	49.594	16.782	20.521		45.51
MOTA	566	CB	HIS	2104	50.200	18.021	19.849	1.00	42.06
MOTA	567	CG	HIS	2104	49.973	18.078	18.373	1.00	40.65
ATOM	568	CD2	HIS	2104	49.181	18.881	17.624	1.00	41.67
MOTA	569	ND1	HIS	2104	50.595	17.224	17.490	1.00	39.22
ATOM	570		HIS	2104	50.200	17.498	16.261		40.25
ATOM	571		HIS	2104	49.341	18.500	16.314		42.04
ATOM		C	HIS						45.93
	572			2104	49.891	16.843	22.000		
ATOM	573	0	HIS	2104	49.057	17.266	22.799		47.15
ATOM	574	N	TYR	2105	51.086	16.407	22.358		46.46
MOTA	575	CA	TYR	2105	51.514	16.446	23.737		49.54
MOTA	576	CB	TYR	2105	52.067	15.085	24.183	1.00	50.37
MOTA	577	CG	TYR	2105	52.743	15.151	25.530	1.00	50.94
MOTA	578	CD1	TYR	2105	52.030	15.527	26.680	1.00	50.78
ATOM	579	CE1	TYR	2105	52.674	15.690	27.914	1.00	49.31
MOTA	580	CD2	TYR	2105	54.114	14.928	25.648	1.00	51.24
ATOM	581	CE2	TYR	2105	54.766	15.088	26.878		51.35
ATOM	582	CZ	TYR		54.042	15.474	28.000		50.78
ATOM	583	ОН	TYR	2105	54.711	15.680	29.186		49.37
ATOM	584	C	TYR	2105	52.609	17.499	23.848		51.42
MOTA	585	0	TYR	2105	53.671	17.366	23.228		52.57
ATOM	586	N	PRO	2106	52.353	18.585	24.601		52.80
MOTA	587	CD	PRO	2106	51.121	18.942	25.327	1.00	51.74
ATOM	588	CA	PRO	2106	53.381	19.628	24.751	1.00	53.64
ATOM	589	CB	PRO	2106	52.647	20.744	25.502	1.00	52.49
MOTA	590	CG	PRO	2106	51.611	19.985	26.306	1.00	53.36
ATOM	591	С	PRO	2106	54.541	19.049	25.555		54.68
ATOM	592	Ö	PRO	2106	54.368	18.677	26.711		53.16
ATOM	593	N	ARG	2107	55.707	18.952	24.921		57.13
ATOM	594	CA	ARG	2107	56.904	18.393	25.550		60.03
ATOM	595	CB	ARG	2107	58.099	18.498	24.581		62.31
ATOM	596	CG	ARG	2107	58.485	17.175	23.905		66.91
ATOM	597	CD	ARG	2107	58.443	17.222	22.369		71.04
MOTA	598	NE	ARG	2107	59.532	18.004	21.773		74.01
ATOM	599	CZ	ARG	2107	59.716	18.154	20.459	1.00	75.70
ATOM	600	NH1	ARG	2107	58.883	17.577	19.600		76.35
ATOM	601		ARG	2107	60.730	18.879	19.994		75.94
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ATOM	602	С	ARG	2107	57.269	19.039	26.900	1.00 60.08
MOTA	603	0	ARG	2107	57.718	18.364	27.831	1.00 60.26
ATOM	604	N	TYR	2108	57.060	20.344	27.002	1.00 60.19
MOTA	605	CA	TYR	2108	57.389	21.098	28.207	1.00 60.87
MOTA	606	CB	TYR	2108	57.464	22.585	27.846	1.00 63.05
MOTA	607	CG	TYR	2108	56.191	23.140	27.229	1.00 64.08
ATOM	608	CD1	TYR	2108	55.115	23.518	28.029	1.00 64.51
ATOM	609	CE1	TYR	2108	53.929	23.984	27.466	1.00 65.94
ATOM	610	CD2	TYR	2108	56.051	23.246	25.840	1.00 65.34
ATOM	611	CE2	TYR	2108	54.868	23.712	25.261	1.00 65.08
ATOM	612	CZ	TYR	2108	53.810	24.077	26.082	1.00 66.49
ATOM	613	OH	TYR	2108	52.629	24.521	25.524	1.00 67.59
ATOM	614	С	TYR	2108	56.427	20.902	29.375	1.00 60.24
ATOM	615	0	TYR	2108	56.702	21.335	30.494	1.00 61.06
ATOM	616	N	GLU	2109	55.304	20.243	29.128	1.00 58.88
ATOM	617	CA	GLU	2109	54.321	20.049	30.184	1.00 56.99
ATOM	618	CB	GLU	2109	52.914	20.081	29.585	1.00 58.61
ATOM	619	CG	GLU	2109	51.950	20.913	30.379	1.00 62.37
ATOM	620	CD	GLU	2109	52.300	22.391	30.330	1.00 65.36
ATOM	621	OE1	GLU	2109	53.455	22.758	30.652	1.00 67.39
ATOM	622	OE2	GLU	2109	51.415	23.192	29.969	1.00 67.05
ATOM	623	С	GLU	2109	54.497	18.768	31.001	1.00 54.46
ATOM	624	0	GLU	2109	54.992	17.752	30.504	1.00 53.13
MOTA	625	N	CYS	2110	54.094	18.832	32.265	1.00 51.50
MOTA	626	CA	CYS	2110	54.166	17.673	33.135	1.00 48.47
MOTA	627	CB	CYS	2110	53.869	18.055	34.581	1.00 47.36
ATOM	628	SG	CYS	2110	53.759	16.606	35.670	1.00 42.88
ATOM	629	С	CYS	2110	53.127	16.664	32.658	1.00 48.43
MOTA	630	0	CYS	2110	51.939	16.970	32.559	1.00 47.85
MOTA	631	N	ILE	2111	53.587	15.456	32.367	1.00 48.70
MOTA	632	CA	ILE	2111	52.720	14.395	31.884	1.00 48.06
MOTA	633	CB	ILE	2111	53.529	13.070	31.756	1.00 48.99
MOTA	634	CG2	ILE	2111	53.665	12.401	33.131	1.00 48.17
MOTA	635	CG1	ILE	2111	52.873	12.142	30.732	1.00 49.40
MOTA	636	CD1	ILE	2111	51.506	11.636	31.138	1.00 52.11
MOTA	637	C	ILE	2111	51.520	14.198	32.813	1.00 47.78
ATOM	638	0	ILE	2111	50.417	13.885	32.362	1.00 48.92
ATOM	639	N_	SER	2112	51.736	14.401	34.109	1.00 47.11
MOTA	640	CA	SER	2112	50.688	14.225	35.106	1.00 46.67 1.00 47.65
MOTA	641	CB	SER	2112	51.302	14.240	36.506 37.465	1.00 47.83
ATOM	642	OG	SER	2112	50.391	13.738 15.306	34.994	1.00 30.07
ATOM	643	C	SER	2112	49.619		35.028	1.00 45.54
ATOM		0	SER	2112	48.414	16.554	34.869	1.00 43.34
ATOM	645	N	ALA	2113	50.062	17.671	34.727	
ATOM	646	CA	ALA	2113	49.136 49.895	18.990	34.748	1.00 42.09
MOTA MOTA	647 648	CB C	ALA ALA	2113 2113	48.399	17.505	33.399	1.00 42.94
	649	0	ALA	2113	47.214	17.814	33.283	1.00 42.65
ATOM ATOM	650	Ŋ	TYR	2113	49.102	17.000	32.396	1.00 42.34
	651	CA	TYR	2114	48.494	16.808	31.094	1.00 43.06
MOTA MOTA	652	CB	TYR	2114	49.557	16.349	30.103	
	653	CG	TYR	2114	49.063	16.161	28.685	1.00 38.35
ATOM	654		TYR	2114	48.806	17.256	27.859	1.00 37.02
MOTA MOTA	655		TYR	2114	48.410	17.236	26.529	1.00 37.52
	655 656		TYR	2114	48.410	14.879	28.150	1.00 37.54
ATOM ATOM	657		TYR	2114	48.519	14.679	26.831	1.00 38.92
	65 <i>1</i> 658	CEZ	TYR	2114	48.272	15.783	26.025	1.00 38.80
ATOM		OH		2114		15.783	24.719	
ATOM	659 660	C	TYR TYR	2114	47.891 47.328	15.799		
MOTA MOTA	661	0	TYR	2114	46.260	16.048	30.577	
ATOM	662	И	ASP	2114	47.534	14.674		
ATOM	663	CA	ASP	2115	46.507	13.636	31.820	
A I ON	003	CA	nor		40.507	13.030	J J. J	2.00 10.15

MOTA	664	СВ	ASP	2115	47.089	12.387	32.594	1.00 5	
MOTA	665	CG 2	ASP	2115	47.929	11.565	31.638	1.00 5	
ATOM	666	OD1		2115	48.736	10.735	32.110	1.00 5	
ATOM	667		ASP	2115	47.773	11.741	30.411	1.00 5	
MOTA	668		ASP	2115	45.279	14.087	32.711	1.00	
MOTA	669		ASP	2115	44.150	13.791 14.786	32.316 33.821	1.00	
MOTA	670		ASP	2116	45.499 44.398	15.290	34.629	1.00	
ATOM	671		ASP	2116	44.922	16.133	35.791	1.00	
ATOM	672 673		ASP ASP	2116 2116	45.635	15.306	36.848	1.00	
MOTA	674	OD1		2116	46.196	15.912	37.794	1.00	
MOTA MOTA	675	OD2		2116	45.634	14.055	36.742	1.00	58.73
ATOM	676		ASP	2116	43.509	16.157	33.742	1.00	52.08
MOTA	677		ASP	2116	42.286	16.002	33.724	1.00	52.26
ATOM	678		GLU	2117	44.135	17.068	33.001	1.00	51.61
MOTA	679		GLU	2117	43.401	17.950	32.117	1.00	
ATOM	680	CB	GLU	2117	44.339	18.985	31.503	1.00	
ATOM	681	CG	GLU	2117	44.978	19.943	32.518	1.00	
ATOM	682	CD	GLU	2117	43.960	20.714	33.364	1.00	
ATOM	683		GLU	2117	43.014	21.310	32.798	1.00	
ATOM	684		GLU	2117	44.118	20.732	34.604	1.00	
ATOM	685	С	GLU	2117	42.675	17.175	31.024	1.00	50.09
ATOM	686	0	GLU	2117	41.492	17.400	30.793		48.64
ATOM	687	N	LEU	2118	43.369	16.264	30.353 29.304		48.91
ATOM	688	CA	LEU	2118	42.728	15.475 14.361	28.799		48.08
MOTA	689	CB	LEU	2118	43.660 44.757	14.700	27.784		48.83
ATOM	690	CG CD1	LEU	2118 2118	45.280	13.413	27.143		46.67
ATOM ATOM	691 692		LEU	2118	44.192	15.621	26.716		48.84
ATOM	693	CD2	LEU	2118	41.442	14.835	29.832		49.21
ATOM	694	0	LEU	2118	40.386	14.902	29.189		48.05
ATOM	695	N	ALA	2119	41.560	14.219	31.009	1.00	49.50
MOTA	696	CA	ALA	2119	40.459	13.530	31.672	1.00	49.04
MOTA	697	CB	ALA	2119	40.915	13.004	33.020	1.00	49.03
ATOM	698	С	ALA	2119	39.244	14.422	31.848	1.00	48.11
ATOM	699	0	ALA	2119	38.115	13.991	31.637		49.00
ATOM	700	N	PHE	2120	39.474	15.669	32.230		47.39
ATOM	701	CA	PHE	2120	38.377	16.608	32.419		46.90
MOTA	702	CB	PHE	2120	38.922	17.929	32.963		46.52
MOTA	703	CG	PHE	2120	37.930	19.054	32.929	1.00	
MOTA	704	CD1		2120	36.803	19.035	33.749	1.00	
MOTA	705	CD2	PHE	2120	38.121	20.137	32.079		48.82
MOTA	706		PHE	2120	35.882	20.084	33.722		50.67 50.34
MOTA	707		PHE	2120	37.210	21.189	32.046		50.72
MOTA	708	CZ	PHE	2120	36.089	21.164	32.868 31.126		46.48
ATOM	709	C	PHE	2120	37.592 36.371	16.867 17.011	31.126		46.05
ATOM	710	0	PHE	2120	38.294	16.915	29.998		46.01
MOTA	711	N CA	TYR TYR	2121 2121	37.668	17.191	28.708		47.31
MOTA MOTA	712 713	CB	TYR	2121	38.677	17.870	27.769		46.25
ATOM	713	CG	TYR	2121	39.181	19.196	28.289		45.13
ATOM	715	CD1		2121	38.353	20.317	28.306	1.00	43.89
ATOM	716		TYR	2121	38.799	21.531	28.815	1.00	44.00
ATOM	717		TYR	2121	40.477	19.325	28.796	1.00	44.51
ATOM	718	CE2		2121	40.937	20.544	29.311	1.00	43.46
ATOM	719	CZ	TYR	2121	40.091	21.639	29.317		42.85
MOTA	720	ОН	TYR		40.516	22.845	29.828		42.00
MOTA	721	С	TYR		37.094	15.964	28.026		48.82
MOTA	722	0	TYR		36.633	16.051	26.893		48.46
MOTA	723		GLY		37.129				51.14
MOTA	724		GLY		36.599				52.82
MOTA	725	C	GLY	2122	37.363	13.118	26.926	1.00	55.54

MOTA	726	0	GLY	2122	36.791	12.530	26.005	1.00	55.79
MOTA	727	N	ILE	2123	38.664	13.379	26.911	1.00	57.10
ATOM	728	CA	ILE	2123	39.500	12.966	25.796	1.00	58.82
ATOM	729	CB	ILE	2123	. 40.250	14.172	25.197	1.00	59.22
ATOM	730	CG2	ILE	2123	41.219	13.713	24.119		57.73
ATOM	731	CG1	ILE	2123	39.240	15.165	24.620		58.76
ATOM	732	CD1	ILE	2123	39.851	16.476	24.219		59.03
ATOM	733	C	ILE				26.283		60.06
				2123	40.492	11.919			
ATOM	734	0	ILE	2123	41.174	12.106	27.292		60.05
MOTA	735	N	LEU	2124	40.557	10.812	25.557		62.02
ATOM	736	CA	LEU	2124	41.438	9.714	25.911		63.91
ATOM	737	CB	LEU	2124	40.824	8.403	25.408		63.78
MOTA	738	CG	LEU	2124	40.443	7.340	26.451		64.64
ATOM	739		LEU	2124	39.965	7.983	27.747		63.33
ATOM	740		LEU	2124	39.369	6.440	25.857		63.81
MOTA	741	С	LEU	2124	42.854	9.887	25.361	1.00	65.23
ATOM	742	0	LEU	2124	43.040	10.173	24.177	1.00	64.84
MOTA	743	N	PRO	2125	43.872	9.718	26.225	1.00	66.82
ATOM	744	CD	PRO	2125	43.755	9.370	27.652	1.00	67.66
ATOM	745	CA	PRO	2125	45.282	9.850	25.841	1.00	68.14
ATOM	746	CB	PRO	2125	46.027	9.414	27.100	1.00	67.95
ATOM	747	CG	PRO	2125	45.097	9.812	28.194	1.00	68.25
ATOM	748	C	PRO	2125	45.574	8.932	24.668		69.27
ATOM	749	Ö	PRO	2125	46.510	9.145	23.901		70.01
ATOM	750	N	GLU	2126	44.756	7.899	24.545		70.68
ATOM	751	CA	GLU	2126	44.900	6.939	23.472		71.93
ATOM	752	CB	GLU						
				2126	43.838	5.848	23.633		73.67
MOTA	753	CG	GLU	2126	43.570	5.048	22.381		77.01
ATOM	754	CD	GLU	2126	42.169	5.278	21.849		79.93
MOTA	755	OE1	GLU	2126	41.883	4.851	20.706		80.66
ATOM	756		GLU	2126	41.351	5.883	22.582		81.43
MOTA	757	С	GLU	2126	44.797	7.613	22.097		71.15
ATOM	758	0	GLU	2126	45.373	7.133	21.118	1.00	71.49
MOTA	759	N	ILE	2127	44.083	8.733	22.022	1.00	70.25
ATOM	760	CA	ILE	2127	43.934	9.426	20.745	1.00	69.58
MOTA	761	CB	ILE	2127	42.629	10.248	20.671	1.00	69.69
MOTA	762	CG2	ILE	2127	41.463	9.450	21.235	1.00	69.20
ATOM	763	CG1	ILE	2127	42.796	11.550	21.442	1.00	70.46
ATOM	764	CD1	ILE	2127	41.697	12.524	21.180	1.00	72.33
MOTA	765	С	ILE	2127	45.094	10.370	20.414	1.00	68.78
ATOM	766	0	ILE	2127	45.055	11.069	19.402		67.72
ATOM	767	N	ILE	2128	46.114	10.408	21.267		67.98
ATOM	768	CA	ILE		47.267		21.004		67.62
ATOM	769	CB	ILE	2128	48.349	11.103	22.112		67.49
ATOM	770		ILE	2128	49.693	11.645	21.637		66.99
ATOM	771		ILE	2128	47.899	11.849	23.371		66.94
ATOM	772		ILE		48.882				
ATOM	773			2128		11.780	24.515		65.31
		C	ILE	2128	47.830	10.837	19.645		67.43
ATOM	774	0	ILE	2128	47.840	9.649	19.317		67.78
MOTA	775	N	GLY	2129	48.274	11.813	18.854		66.66
ATOM	776	CA	GLY	2129		11.519	17.536		66.32
ATOM	777	С	GLY	2129	50.102	10.719	17.531		66.62
MOTA	778	0	GLY	2129	50.841	10.693	18.519		65.58
ATOM	779	N	ASP	2130	50.379	10.064	16.408		66.68
MOTA	780	CA	ASP	2130	51.590	9.264	16.278	1.00	67.29
MOTA	781	CB	ASP	2130	51.555	8.451	14.979	1.00	69.53
ATOM	782	CG	ASP	2130	50.770	7.154	15.130	1.00	72.54
MOTA	783	OD1	ASP	2130	51.222	6.284	15.916	1.00	73.65
ATOM	784	OD2	ASP	2130	49.704	7.007	14.475		73.11
ATOM	785	С	ASP	2130	52.828	10.145	16.319		65.80
MOTA	786	0	ASP	2130	53.941	9.673	16.593		65.98
ATOM	787	N	CYS	2131	52.627	11.433	16.061		63.80
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ATOM	788	CA	CYS	2131	53	.725	12.3	85	16.077	1.00	61.72
ATOM	789	CB	CYS	2131		.307	13.6	74	15.361	1.00	60.65
ATOM	790	SG	CYS	2131		.725	14.3		15.914	1.00	58.77
	791	C	CYS	2131		.163	12.6		17.505	1.00	60.92
ATOM									17.738		60.31
MOTA	792	0	CYS	2131		.296	13.0				
MOTA	793	N	CYS	2132		.266	12.4		18.461		61.16
MOTA	794	CA	CYS	2132	53	.569	12.7		19.864		62.22
ATOM	795	CB	CYS	2132	52	.626	13.8	304	20.417		60.61
ATOM	796	SG	CYS	2132	52	.941	15.4	193	19.858	1.00	54.79
ATOM	797	С	CYS	2132	53	.490	11.5	506	20.776	1.00	64.94
ATOM	798	0	CYS	2132		.977	11.5		21.910	1.00	64.43
	799	И	TYR	2133		.885	10.4		20.296		68.20
ATOM				2133		2.731	9.2		21.125		72.00
MOTA	800	CA	TYR								75.99
ATOM	801	CB	TYR	2133		. 999	8.1		20.362		
ATOM	802	CG	TYR	2133		.886		171	21.179		80.69
MOTA	803	CD1	TYR	2133	49	699)42	20.571		82.62
ATOM	804	CE1	TYR	2133	48	3.647	6.4	199	21.329		84.61
ATOM	805	CD2	TYR	2133	51	.002	7.3	332	22.571	1.00	82.57
ATOM	806	CE2	TYR	2133	4.9	9.961	6.5	788	23.338	1.00	84.20
ATOM	807	CZ	TYR	2133	4.8	3.785	6.3	377	22.712	1.00	85.25
ATOM	808	OH	TYR	2133		7.748		351	23.459	1.00	85.38
								598	21.681		72.30
ATOM	809	C	TYR	2133		1.042					71.80
MOTA	810	0	TYR	2133		1.149		443	22.876		
MOTA	811	N	GLU	2134		5.036		532	20.819		73.49
MOTA	812	CA	GLU	2134		5.336		051	21.263		74.86
MOTA	813	CB	GLU	2134	57	7.368	8.3	193	20.138		77.54
ATOM	814	CG	GLU	2134	51	7.034	7.	440	18.852	1.00	81.48
MOTA	815	CD	GLU	2134	51	7.258	5.5	937	18.962	1.00	83.66
ATOM	816	OE1	GLU	2134	5	7.087	5.3	239	17.935	1.00	84.67
MOTA	817	OE2	GLU	2134		7.601		457	20.067		84.35
		C	GLU	2134		5.774		883	22.464		74.22
ATOM	818								23.511		73.58
MOTA	819	0	GLU	2134		7.115		342			
MOTA	820	N	GLU	2135		5.744	10.		22.306		74.27
ATOM	821	CA	GLU	2135	5	7.149	11.		23.367		74.37
ATOM	822	CB	GLU	2135	5	7.131	12.	569	22.851		76.24
ATOM	823	CG	GLU	2135	51	8.437	13.	323	23.081	1.00	78.85
ATOM	824	CD	GLU	2135	5	B.771	13.	502	24.553	1.00	80.42
ATOM	825	OE1	GLU	2135	5	9.921	13.	884	24.869	1.00	80.72
MOTA	826	OE2	GLU	2135	5	7.880	13.	268	25.395	1.00	81.45
ATOM	827	C	GLU	2135		6.275		021	24.615	1.00	73.40
ATOM	828	Ö	GLU	2135		6.778		062	25.738		72.98
			TYR	2136		4.968		890	24.416		71.95
ATOM	829	N					10.		25.528		71.34
MOTA	830	CA	TYR			4.038					69.80
ATOM	831	CB	TYR	2136		2.603		726	25.000		
MOTA	832	CG	TYR	2136		1.567		435	26.058		68.35
MOTA	833	CD1	TYR	2136		0.856			26.053		68.86
MOTA	834	CE1	TYR	2136	4	9.913			27.038		68.45
MOTA	835	CD2	TYR	2136	5	1.308	11.	346	27.073		68.19
ATOM	836	CE2	TYR	2136	5	0.369	11.	073	28.062	1.00	68.81
ATOM	837	CZ	TYR	2136	4	9.676	9.	873	28.042	1.00	68.70
MOTA	838	ОН	TYR	2136		8.767		592	29.040	1.00	68.27
ATOM	839	C	TYR	2136		4.316		533	26.377		71.99
ATOM	840	ō	TYR	2136		4.485		632	27.593		71.15
ATOM				2137		4.374		373	25.730		73.64
	841	N	LYS					112	26.427		75.77
ATOM	842	CA	LYS	2137		4.611					77.33
MOTA	843	CB	LYS	2137		4.519		940	25.445		
MOTA	844	CG	LYS	2137		3.081		620	25.026		79.51
MOTA	845	CD	LYS	2137		3.006		613	23.876		81.70
ATOM	846	CE	LYS	2137		3.419		201	24.299		82.86
ATOM	847	NZ	LYS	2137	5	4.868	3.	075			84.14
ATOM	848	C	LYS	2137	5	5.921	7.	049	27.20		76.22
ATOM	849	0	LYS	2137	5	5.991	6.	400	28.24	7 1.00	76.42

ATOM	850	N	ASP	2138	56.956	7.720	26.701		76.57
ATOM	851	CA	ASP	2138	58.241	7.725	27.393		77.38
MOTA	852	CB	ASP	2138	59.344	8.313	26.507		78.23
MOTA	853	CG	ASP	2138	60.076	7.249	25.705		79.67
ATOM	854	OD1	ASP	2138	60.381	6.181	26.286	1.00	80.18
MOTA	855	QD2	ASP	2138	60.359	7.483	24.506	1.00	80.17
MOTA	856	C	ASP	2138	58.170	8.512	28.691	1.00	77.69
ATOM	857	0	ASP	2138	58.660	8.061	29.722	1.00	77.72
MOTA	858	N	ARG	2139	57.555	9.689	28.633	1.00	78.49
MOTA	859	CA	ARG	2139	57.417	10.545	29.803	1.00	79.17
MOTA	860	CB	ARG	2139	56.867	11.909	29.395	1.00	79.46
MOTA	861	CG	ARG	2139	57.815	12.723	28.538	1.00	80.04
MOTA	862	CD	ARG	2139	58.904	13.392	29.364	1.00	80.71
ATOM	863	NE	ARG	2139	58.742	14.846	29.379	1.00	82.21
ATOM	864	CZ	ARG	2139	57.889	15.507	30.159	1.00	82.42
MOTA	865	NH1	ARG	2139	57.110	14.849	31.010	1.00	84.27
MOTA	866	NH2	ARG	2139	57.803	16.829	30.082	1.00	81.32
MOTA	867	С	ARG	2139	56.502	9.917	30.839	1.00	79.94
MOTA	868	0	ARG	2139	56.642	10.170	32.034	1.00	79.75
MOTA	869	N	LYS	2140	55.563	9.100	30.379	1.00	81.05
MOTA	870	CA	LYS	2140	54.637	8.440	31.284	1.00	83.03
MOTA	871	CB	LYS	2140	53.436	7.901	30.510	1.00	83.00
MOTA	872	CG	LYS	2140	52.319	7.422	31.409	1.00	83.12
MOTA	873	CD	LYS	2140	51.058	7.137	30.629	1.00	83.96
MOTA	874	CE	LYS	2140	49.887	6.997	31.578	1.00	84.30
MOTA	875	NZ	LYS	2140	49.811	8.192	32.471	1.00	84.69
MOTA	876	С	LYS	2140	55.346	7.295	31.998	1.00	84.77
ATOM	877	0	LYS	2140	55.042	6.969	33.146	1.00	84.82
MOTA	878	N	ARG	2141	56.295	6.688	31.298	1.00	86.87
MOTA	879	CA	ARG	2141	57.074	5.582	31.829	1.00	88.75
MOTA	880	CB	ARG	2141	57.895	4.969	30.697	1.00	89.45
ATOM	881	CG	ARG	2141	58.732	3.762	31.063	1.00	90.78
ATOM	882	CD	ARG	2141	59.418	3.252	29.812	1.00	92.49
MOTA	883	NE	ARG	2141	58.503	3.322	28.671	1.00	94.11
ATOM	884	CZ	ARG	2141	58.768	2.854	27.455		94.75
ATOM	885	NH1	ARG	2141	59.933	2.269	27.201		95.31
ATOM	886	NH2	ARG	2141	57.864	2.972	26.489		94.74
MOTA	887	С	ARG	2141	57.997	6.099	32.930		89.89
ATOM	888	0	ARG	2141	58.055	5.541	34.028		90.05
MOTA	889	N	GLU	2142	58.712	7.177	32.628		90.80
MOTA	890	CA	GLU	2142	59.634	7.772	33.583		92.46
ATOM	891	CB	GLU	2142	60.365	8.959	32.950		92.98
MOTA	892	CG	GLU	2142	60.732	8.774	31.483		94.59
MOTA	893	CD	GLU		61.616	7.558	31.226		96.09
ATOM	894		GLU		61.859	7.248	30.037		96.62
ATOM	895		GLU		62.070	6.916	32.204		96.72
MOTA	896	С	GLU	2142	58.869	8.260	34.803		93.22
MOTA	897	0	GLU		59.431	8.387	35.888		94.11
MOTA	898	N	ASN	2143	57.580	8.526	34.618		93.90
MOTA	899	CA	ASN		56.735	9.033	35.693		94.44
ATOM	900	CB	ASN		55.445	9.616	35.108		94.93
ATOM	901	CG	ASN		54.706	10.502	36.092		95.31
MOTA	902		ASN		55.187	11.579	36.455		96.12
ATOM	903		ASN		53.535	10.053	36.534		94.75
ATOM	904	C	ASN		56.382	7.993	36.752		94.72
ATOM	905	0	ASN		56.541	8.239	37.951		94.36
ATOM	906	N	LEU		55.895	6.836	36.311		95.33
ATOM	907	CA	LEU		55.509	5.776	37.234		96.13
ATOM	908	CB	LEU		54.921	4.582	36.464		95.43 95.18
MOTA	909	CG	LEU		55.733	3.849	35.387		94.43
MOTA	910		LEU		56.916	3.109	36.003		
MOTA	911	CD2	LEU	2144	54.818	2.865	34.667	1.00	94.66

ATOM	912	С	LEU	2144	56.6	59	5.311	38.125		96.94
MOTA	913	0	LEU	2144	56.4		4.894	39.262		97.03
MOTA	914	N	GLU	2145	57.8		5.399	37.619		97.84
ATOM	915	CA	GLU	2145	59.0		4.966	38.382		98.91
MOTA	916	CB	GLU	2145	60.2		4.751	37.443		98.78
MOTA	917	CG	GLU	2145	61.0		6.015	37.119		99.24
MOTA	918	CD	GLU	2145	62.0		5.795	36.043		00.00
ATOM	919		GLU	2145	62.9		6.685	35.859		00.00
MOTA	920		GLU	2145	62.0		4.738 5.949	35.375 39.493		99.41
MOTA	921	C	GLU	2145	59.4		6.988	39.649		99.68
ATOM	922	0	GLU	2145	58.7 60.4		5.658	40.199		99.81
ATOM	923 1905	OXT ZN+2	GLU ZN2	2145 2300	52.4		15.850	17.745		60.11
ATOM	924	CB	GLN	3038	50.5		55.822	4.146		85.88
ATOM	924	CG	GLN	3038	49.7		55.028	3.167		87.19
ATOM ATOM	926	CD	GLN	3038	50.2		54.973	1.768		87.98
ATOM	927	OE1		3038	50.4		56.009	1.079		88.62
ATOM	928	NE2	GLN	3038	50.6		53.760	1.331		88.26
ATOM	929	C	GLN	3038	50.3		54.172	6.026		84.68
ATOM	930	0	GLN	3038	49.9		53.240	5.278	1.00	84.19
ATOM	931	N	GLN	3038	50.9		56.593	6.493	1.00	84.63
MOTA	932	CA	GLN	3038	50.1		55.653	5.612	1.00	85.75
ATOM	933	N	ASP	3039	50.8		53.943	7.204	1.00	83.42
ATOM	934	CA	ASP	3039	51.0		52.574	7.633	1.00	81.48
ATOM	935	CB	ASP	3039	52.4		52.413	8.270	1.00	82.36
ATOM	936	CG	ASP	3039	53.0		51.016	8.072	1.00	82.90
ATOM	937		ASP	3039	52.2		50.140	7.546	1.00	82.87
ATOM	938	OD2		3039	54.1	.96	50.794	8.437	1.00	83.34
MOTA	939	C	ASP	3039	49.9	980	52.146	8.611	1.00	80.14
ATOM	940	0	ASP	3039	49.7	784	52.773	9.657	1.00	80.54
ATOM	941	N	GLU	3040	49.2	263	51.084	8.250	1.00	77.44
ATOM	942	CA	GLU	3040	48.1	L94	50.532	9.084		74.97
MOTA	943	CB	GLU	3040	47.3	L83	49.747	8.240		76.16
MOTA	944	CG	GLU	3040	45.9	974	50.505	7.741		7 7 .95
MOTA	945	CD	GLU	3040	45.1	112	49.642	6.824		79.88
MOTA	946		GLU	3040	44.0	017	50.093	6.418		80.83
MOTA	947		GLU	3040	45.5		48.509	6.500		80.59
MOTA	948	С	GLU	3040	48.		49.568	10.121		71.97
MOTA	949	0	GLU	3040	49.		48.885	9.897		70.86
MOTA	950	N	LEU	3041	48.0		49.514	11.257		68.20
ATOM	951	CA	LEU	3041	48.4		48.598	12.311		64.88
MOTA	952	CB	LEU	3041	48.5		49.331	13.643		63.27 62.61
MOTA	953		LEU	3041				14.740 14.263		61.42
MOTA	954		LEU	3041	50.9 49.3		48.022	15.970		61.86
ATOM	955		LEU	3041 3041	47.		49.377 47.622	12.323		63.13
ATOM	956	C	LEU		46.		47.913	12.896		63.03
MOTA MOTA	957 958	N O	ILE	3041 3042	47.		46.481	11.656		61.01
ATOM	959	CA	ILE	3042	46.		45.506	11.598		58.63
ATOM	960	CB	ILE	3042	46.		44.703	10.262		59.41
ATOM	961		ILE	3042	46.		45.645			59.89
ATOM	962		ILE	3042		522	43.743			60.06
ATOM	963		ILE	3042	47.		42.807	9.007		61.44
ATOM	964	C	ILE	3042	46.		44.530	12.763		56.16
MOTA	965	0	ILE	3042	47.		44.263	13.351		55.10
MOTA	966	N	VAL	3043		217	44.021			52.49
ATOM	967	CA	VAL	3043		034	43.082	14.173	1.00	49.12
ATOM	968		VAL	3043	43.	871	43.515			48.58
MOTA	969		VAL	3043	43.	467	42.363			46.91
ATOM	970		VAL	3043	44.	285	44.733			45.49
MOTA	971	С	VAL	3043		756	41.685			47.65
MOTA	972	0	VAL	3043	43.	837	41.464	12.862	1.00	47.29

ATOM	973	N	LEU	3044	45.57	4 40.743	14.096	1.00	46.24
MOTA	974	CA	LEU	3044	45.42	0 39.355	13.700	1.00	
MOTA	975		LEU	3044	46.76		13.217	1.00	
MOTA	976	CG	LEU	3044	47.32		11.983		48.25
ATOM	977	CD1		3044	48.73		11.680		49.41
MOTA	978	CD2		3044	46.39		10.793		47.73
MOTA	979	C	LEU	3044	44.93				43.51 43.59
ATOM	980	0	LEU	3044	45.71				41.34
ATOM	981	N	ASN	3045	43.63				40.32
MOTA	982	CA	ASN	3045 3045	43.06 41.55				41.67
MOTA	983	CB	ASN ASN	3045	40.95				44.28
ATOM	984 985	CG OD1	ASN	3045	41.41				43.67
ATOM ATOM	986		ASN	3045	39.92				44.35
ATOM	987	C	ASN	3045	43.26				38.47
ATOM	988	Õ	ASN	3045	42.58			1.00	37.95
ATOM	989	N	VAL	3046	44.20		16.521	1.00	35.67
ATOM	990	CA	VAL	3046	44.43		16.294	1.00	33.57
ATOM	991	СВ	VAL	3046	45.91	9 33.779	16.075	1.00	34.19
ATOM	992	CG1	VAL	3046	46.13	10 32.279	15.823		32.26
MOTA	993	CG2	VAL	3046	46.46	59 34.643	14.933	1.00	31.05
MOTA	994	С	VAL	3046	43.99				33.72
ATOM	995	0	VAL	3046	44.5				31.36
MOTA	996	N	SER	3047	42.89				34.10
MOTA	997	CA	SER	3047	42.3				34.26
MOTA	998	CB	SER	3047	43.30				34.87
ATOM	999	OG	SER	3047	42.9				38.04
MOTA	1000	C	SER	3047	42.0				33.22
MOTA	1001	0	SER	3047	41.9				34.89
MOTA	1002	N	GLY	3048	41.8 41.5				35.40
MOTA	1003	CA C	GLY GLY	3048 3048	42.7				36.95
ATOM ATOM	1004 1005	0	GLY	3048	42.7				37.80
ATOM	1005	N	ARG	3049	43.9				37.94
ATOM	1007	CA	ARG	3049	45.1				40.93
ATOM	1008	СВ	ARG	3049	46.4			1.00	44.79
ATOM	1009	CG	ARG	3049	46.5		21.940	1.00	51.65
ATOM	1010	CD	ARG	3049	46.8	48 34.742	23.247		55.25
MOTA	1011	NE	ARG	3049	46.3	04 33.96	24.354	1.00	57.21
MOTA	1012	CZ	ARG	3049	45.0				59.24
MOTA	1013	NH1	ARG	3049	44.1				57.60
MOTA	1014		ARG	3049	44.6				60.83
MOTA	1015	С	ARG	3049	45.2				41.42
MOTA	1016	0	ARG	3049	45.2				39.63
MOTA	1017	N	ARG	3050	45.3				40.84
MOTA	1018	CA	ARG	3050	45.4				47.43
ATOM	1019	CB	ARG	3050	44.6 43.1				55.30
MOTA	1020	CG CD	ARG ARG	3050 3050	42.2				60.47
ATOM ATOM	1021 1022	NE	ARG	3050	40.8				64.97
MOTA	1022	CZ	ARG	3050	40.1				68.43
MOTA	1023		ARG	3050	40.6				70.13
ATOM	1025		ARG	3050	38.8				69.08
ATOM	1026	C	ARG	3050	46.9			1.00	42.77
ATOM	1027	Ö	ARG	3050	47.7			1.00	43.58
ATOM	1028	N	PHE	3051	47.3	08 39.70	2 17.853		41.01
ATOM	1029	CA	PHE	3051	48.6	49 40.07	4 17.412		40.35
ATOM	1030	CB	PHE	3051	49.2				39.21
MOTA	1031	CG	PHE	3051	49.5				39.30
MOTA	1032		PHE	3051	50.7				39.13
MOTA	1033		PHE	3051	48.5				40.84
MOTA	1034	CE1	PHE	3051	51.0	23 36.34	3 18.660	1.00	38.86

ATOM	1035	CE2	PHE	3051	48.797	35.539	18.131	1.00 4	
MOTA	1036	CZ	PHE	3051	50.045	35.352	18.757	1.00 4	
MOTA	1037	C	PHE	3051	48.493	41.310	16.552	1.00 3	
MOTA	1038	0	PHE	3051	47.513	41.441	15.830	1.00 3	
MOTA	1039	N	GLN	3052	49.443	42.223	16.635	1.00 4	
MOTA	1040	CA	GLN	3052	49.379	43.420	15.820	1.00 4	
MOTA	1041	CB	GLN	3052	49.102	44.661	16.652	1.00 4	
MOTA	1042	CG	GLN	3052	47.797	44.617	17.374	1.00 4	
ATOM	1043	CD	GLN	3052	47.510	45.918	18.061	1.00 4	
ATOM	1044	OE1	GLN	3052	46.908	46.814	17.477	1.00	
MOTA	1045	NE2	GLN	3052	47.958	46.043	19.307	1.00	
ATOM	1046	C	GLN	3052	50.691	43.604	15.113	1.00	
MOTA	1047	0	GLN	3052	51.757	43.394	15.691	1.00	
MOTA	1048	И	THR	3053	50.604	43.999	13.854	1.00	
MOTA	1049	CA	THR	3053	51.782	44.241	13.047	1.00	
MOTA	1050	CB	THR	3053	52.298	42.935	12.385	1.00	
MOTA	1051	OG1	THR	3053	53.600	43.167	11.839	1.00	
MOTA	1052	CG2	THR	3053	51.373	42.491	11.265	1.00	
MOTA	1053	С	THR	3053	51.375	45.245	11.977	1.00	
MOTA	1054	0	THR	3053	50.179	45.445	11.717	1.00	
MOTA	1055	N	TRP	3054	52.369	45.878	11.362	1.00	
MOTA	1056	CA	TRP	3054	52.105	46.851	10.318	1.00	
MOTA	1057	CB	TRP	3054	53.328	47.740	10.120	1.00	
ATOM	1058	CG	TRP	3054	53.689	48.518 49.683	11.343 11.832	1.00	
ATOM	1059	CD2	TRP	3054	53.026	50.079	13.013	1.00	
ATOM	1060	CE2	TRP	3054	53.693	50.430	11.391		51.90
ATOM	1061		TRP	3054	51.926 54.707	48.257	12.221		51.71
ATOM	1062	CD1	TRP	3054	54.707	49.194	13.228		50.71
MOTA	1063	NE1	TRP	3054 3054	53.297	51.195	13.755		52.71
ATOM	1064	CZ2	TRP TRP	3054	51.530	51.544	12.131		52.01
ATOM	1065	CZ3 CH2	TRP	3054	52.214	51.913	13.302		52.64
ATOM	1066	C	TRP	3054	51.755	46.147	9.014		56.65
ATOM	1067 1068	0	TRP	3054	52.352	45.125	8.673		56.36
MOTA MOTA	1068	И	ARG	3055	50.772	46.686	8.299		59.18
MOTA	1009	CA	ARG	3055	50.362	46.114	7.023		62.20
MOTA	1070	CB	ARG	3055	49.366	47.048	6.326		64.91
ATOM	1072	CG	ARG	3055	48.913	46.546	4.975		68.74
ATOM	1072	CD	ARG	3055	47.887	47.470	4.343		73.15
ATOM	1074	NE	ARG	3055	48.463	48.698	3.785	1.00	77.04
MOTA	1075	CZ	ARG	3055	48.699	49.817	4.473	1.00	78.94
ATOM	1076		ARG	3055	48.415	49.888	5.766	1.00	79.88
MOTA	1077		ARG	3055	49.204	50.883	3.862	1.00	79.28
MOTA	1078	С	ARG	3055	51.605	45.940	6.156		62.43
ATOM	1079	0	ARG	3055	51.692	45.035	5.327	1.00	61.61
ATOM	1080	N	THR	3056	52.561	46.838	6.379	1.00	62.73
MOTA	1081	CA	THR	3056	53.841	46.868	5.674		63.13
MOTA	1082	CB	THR	3056	54.728	48.020	6.201	1.00	64.09
MOTA	1083	OG1	THR	3056	54.194	49.270	5.747		64.78
MOTA	1084	CG2	THR	3056	56.183	47.833	5.764		63.58
MOTA	1085	С	THR	3056	54.603	45.569	5.885		62.88
MOTA	1086	0	THR	3056	55.053	44.938	4.928		62.96
MOTA	1087	N	THR	3057	54.747	45.184	7.149		61.85
MOTA	1088	CA	THR	3057	55.461	43.973	7.507		61.21
MOTA	1089	CB	THR	3057	55.409	43.716	9.031		61.05
MOTA	1090		THR	3057	55.791	44.906	9.731		60.64
MOTA	1091	CG2		3057	56.360	42.591	9.408		59.52
MOTA	1092	C	THR	3057	54.898	42.757	6.788		61.89
MOTA	1093	0	THR	3057	55.652	41.926	6.277		61.24
MOTA	1094	N	LEU	3058	53.574	42.649	6.737		62.10
MOTA	1095	CA	LEU	3058	52.952	41.494	6.094		63.18
MOTA	1096	CB	LEU	3058	51.453	41.439	6.395	1.00	61.56

ATOM	1097	CG	LEU	3058	51.071	41.098	7.833	1.00 61.38
MOTA	1098	CD1	LEU	3058	49.582	40.853	7.906	1.00 60.19
MOTA	1099	CD2	LEU	3058	51.828	39.861	8.297	1.00 61.08
MOTA	1100	C	LEU	3058	53.162	41.467	4.594	1.00 65.06
MOTA	1101	0	LEU	3058	53.230	40.391	3.988	1.00 64.97
MOTA	1102	N	GLU	3059	53.283	42.647	3.995	1.00 67.41
MOTA	1103	CA	GLU	3059	53.476	42.735	2.555	1.00 69.28
MOTA	1104	CB	GLU	3059	53.096	44.129	2.072	1.00 70.55
MOTA	1105	CG	GLU	3059	51.592	44.340	2.032	1.00 73.05
MOTA	1106	CD	GLU	3059	51.208	45.801	1.958	1.00 74.89 1.00 75.70
MOTA	1107		GLU	3059	49.998	46.094	1.796	
MOTA	1108		GLU	3059	52.117	46.654	2.074	1.00 75.75 1.00 69.17
MOTA	1109	C	GLU	3059	54.875	42.369	2.081 0.903	1.00 69.42
MOTA	1110	0	GLU	3059	55.067	42.092	2.990	1.00 69.79
MOTA	1111	N	ARG	3060	55.844	42.350	2.629	1.00 70.63
MOTA	1112	CA	ARG	3060	57.209	41.993 41.956	3.867	1.00 70.03
MOTA	1113	CB	ARG	3060	58.095	43.287	4.533	1.00 70.36
ATOM	1114	CG	ARG	3060	58.326	43.207	5.754	1.00 71.14
MOTA	1115	CD	ARG	3060	59.187 59.425	44.315	6.483	1.00 72.75
ATOM	1116	NE	ARG	3060	60.048	44.373	7.655	1.00 74.02
MOTA	1117	CZ	ARG ARG	3060 3060	60.493	43.261	8.229	1.00 74.72
ATOM	1118	NH1 NH2		3060	60.227	45.542	8.256	1.00 75.21
MOTA	1119	C	ARG	3060	57.269	40.633	1.943	1.00 72.01
ATOM	1120	0	ARG	3060	58.180	40.361	1.162	1.00 72.23
ATOM	1121 1122	N	TYR	3061	56.305	39.771	2.245	1.00 73.44
MOTA ATOM	1123	CA	TYR	3061	56.276	38.446	1.643	1.00 74.58
ATOM	1124	CB	TYR	3061	56.623	37.365	2.675	1.00 74.41
MOTA	1125	CG	TYR	3061	57.984	37.533	3.288	1.00 74.49
MOTA	1126	CD1		3061	58.214	38.501	4.265	1.00 75.19
MOTA	1127	CE1		3061	59.488	38.711	4.786	1.00 75.84
ATOM	1128	CD2		3061	59.060	36.769	2.849	1.00 74.57
ATOM	1129	CE2		3061	60.340	36.969	3.361	1.00 75.48
ATOM	1130	CZ	TYR	3061	60.545	37.942	4.326	1.00 76.06
ATOM	1131	OH	TYR	3061	61.807	38.150	4.821	1.00 76.24
ATOM	1132	C	TYR	3061	54.930	38.119	1.026	1.00 75.60
ATOM	1133	0	TYR	3061	54.041	37.600	1.700	1.00 75.99
ATOM	1134	N	PRO	3062	54.752	38.438	-0.263	1.00 76.75
ATOM	1135	CD	PRO	3062	55.653	39.195	-1.151	1.00 77.26
ATOM	1136	CA	PRO	3062	53.482	38.142	-0.932	1.00 77.48
ATOM	1137	CB	PRO	3062	53.551	39.002	-2.187	1.00 77.39
MOTA	1138	CG	PRO	3062	55.017	38.985	-2.507	1.00 77.38
ATOM	1139	C	PRO	3062	53.474	36.644	-1.235	
MOTA	1140	0	PRO	3062	54.437	35.950	-0.911	1.00 79.05
MOTA	1141	N	ASP	3063	52.406		-1.850	1.00 77.95
MOTA	1142	CA	ASP	3063	52.274	34.728	-2.181	1.00 78.60
MOTA	1143	CB	ASP	3063	53.548		-2.856	1.00 80.09
ATOM	1144	CG	ASP	3063	54.450		-1.895	1.00 82.22
MOTA	1145		L ASP	3063	54.005		-1.330	1.00 83.44
MOTA	1146		2 ASP	3063	55,610		-1.708	1.00 83.23
MOTA	1147	C	ASP	3063		33.891	-0.939	
MOTA	1148	0	ASP	3063	51.389		-1.049	
MOTA	1149	N	THR	3064	52.307		0.239	1.00 75.10
MOTA	1150	CA		3064	51.998		1.489	1.00 72.43
MOTA	1151	CB		3064	52.933		2.630	1.00 71.56 1.00 71.11
MOTA	1152		1 THR	3064	52.817		2.833	
ATOM	1153		2 THR	3064	54.373		2.303	
MOTA	1154		THR	3064	50.586		1.831	
MOTA	1155		THR	3064	50.149		1.373	
ATOM	1156		LEU	3065	49.870		2.635 2.980	
ATOM	1157				48.502		3.856	
MOTA	1158	CB	LEU	3065	47.865	32.660	3.030	1.00 00.02

MOTA	1159	CG	LEU	3065	46.419	32.922	4.294	1.00	65.55
MOTA	1160	CD1	LEU	3065	45.617	31.631	4.298	1.00	
MOTA	1161		LEU	3065	46.424	33.571	5.663	1.00	
MOTA	1162		LEU	3065	48.365	35.116	3.654	1.00	
ATOM	1163	0	LEU	3065	47.444	35.868	3.352	1.00	
MOTA	1164	N	LEU	3066	49.284	35.454	4.549	1.00	
ATOM	1165	CA	LEU	3066	49.196	36.727 36.676	5.252 6.536	1.00	
ATOM	1166	CB	LEU	3066 3066	50.022 49.387	35.842	7.648	1.00	
ATOM	1167	CG CD1	LEU	3066	50.242	35.913	8.912	1.00	
MOTA ATOM	1168 1169		LEU	3066	47.980	36.367	7.910	1.00	
ATOM	1170	C	LEU	3066	49.582	37.959	4.450	1.00	
ATOM	1171	Ô	LEU	3066	49.086	39.053	4.719	1.00	
ATOM	1172	N	GLY	3067	50.461	37.790	3.469	1.00	68.58
MOTA	1173	CA	GLY	3067	50.875	38.925	2.662	1.00	69.45
ATOM	1174	С	GLY	3067	50.253	38.963	1.278	1.00	69.67
MOTA	1175	0	GLY	3067	50.774	39.630	0.391	1.00	69.76
MOTA	1176	N	SER	3068	49.141	38.257	1.093	1.00	70.12
MOTA	1177	CA	SER	3068	48.469	38.206	-0.199	1.00	
MOTA	1178	CB	SER	3068	48.971	37.011	-1.003	1.00	
MOTA	1179	OG	SER	3068	48.441	35.798	-0.489	1.00	
MOTA	1180	C	SER	3068	46.964	38.068	-0.033		71.46
MOTA	1181	0	SER	3068	46.503	37.134	0.599	1.00	
MOTA	1182	N	THR	3069	46.219	39.005	-0.611	1.00	
ATOM	1183	CA	THR	3069	44.753	39.052	-0.583	1.00	
ATOM	1184	CB	THR	3069	44.211	39.345	-2.001		72.15 72.44
ATOM	1185	OG1	THR	3069	44.641 44.727	38.317 40.692	-2.905 -2.494		71.32
ATOM	1186	CG2 C	THR THR	3069 3069	43.955	37.872	0.003		72.12
MOTA MOTA	1187 1188	0	THR	3069	42.831	38.065	0.462		71.77
ATOM	1189	N	GLU	3070	44.504	36.659	-0.039		72.67
ATOM	1190	CA	GLU	3070	43.831	35.488	0.530		73.64
ATOM	1191	CB	GLU	3070	44.791	34.304	0.647		75.83
ATOM	1192	CG	GLU	3070	45.114	33.557	-0.623		79.98
ATOM	1193	CD	GLU	3070	45.853	32.253	-0.330	1.00	82.50
MOTA	1194		GLU	3070	45.241	31.340	0.275	1.00	82.69
MOTA	1195	OE2	GLU	3070	47.047	32.144	-0.691	1.00	84.45
MOTA	1196	С	GLU	3070	43.297	35.770	1.937	1.00	72.88
ATOM	1197	0	GLU	3070	42.166	35.412	2.265		72.44
MOTA	1198	N	LYS	3071	44.122	36.402	2.768	1.00	
MOTA	1199	CA	LYS	3071	43.737	36.703	4.138	1.00	71.72
MOTA	1200	CB	LYS	3071	44.848	37.471	4.861		70.88
MOTA	1201	CG	LYS	3071	45.130	38.855	4.333		71.14
ATOM	1202	CD	LYS	3071	45.851	39.667	5.394		71.20
ATOM	1203	CE	LYS	3071	46.303	41.017	4.880		71.34
ATOM ATOM	1204 1205	NZ C	LYS LYS	3071 3071	47.450 42.426	40.903 37.462	3.940 4.274		71.33
MOTA	1205	0	LYS	3071	41.838	37.492	5.351		72.20
MOTA	1200	N	GLU	3072	41.960	38.074	3.193		72.44
ATOM	1208	CA	GLU	3072	40.701	38.810	3.235		72.28
ATOM	1209	CB	GLU	3072	40.488	39.573	1.928		73.54
ATOM	1210	CG	GLU	3072	40.764	41.073	2.032	1.00	75.53
ATOM	1211	CD	GLU	3072	42.123	41.401	2.644	1.00	76.82
MOTA	1212		GLU	3072	43.169	41.045	2.046	1.00	76.51
ATOM	1213		GLU	3072	42.135	42.024	3.730		76.77
MOTA	1214	C	GLU	3072	39.550	37.844	3.480		71.72
MOTA	1215	0	GLU	3072	38.471	38.245	3.901		71.71
ATOM	1216	N	PHE	3073	39.798	36.567	3.224		71.61
MOTA	1217	CA	PHE	3073	38.803	35.521	3.427		72.73
ATOM	1218	CB	PHE	3073	39.342	34.193	2.883		73.39
ATOM	1219	CG CD1	PHE	3073	38.429	33.016	3.120		75.45 75.32
ATOM	1220	CDI	PHE	3073	37.443	32.679	2.191	1.00	13.32

ATOM	1221	CD2	PHE	3073	38.553	32.242	4.279	1.00 75.55
ATOM	1222	CE1	PHE	3073	36.593	31.585	2.412	1.00 75.72
MOTA	1223	CE2	PHE	3073	37.709	31.150	4.511	1.00 75.31
ATOM	1224	CZ	PHE	3073	36.728	30.821	3.575	1.00 75.60
MOTA	1225	С	PHE	3073	38.462	35.366	4.917	1.00 73.30
ATOM	1226	0	PHE	3073	37.401	34.846	5.265	1.00 73.40
ATOM	1227	N	PHE	3074	39.366	35.805	5.792	1.00 73.64
ATOM	1228	CA	PHE	3074	39.157	35.704	7.237	1.00 73.71
ATOM	1229	CB	PHE	3074	40.328	34.990	7.927	1.00 69.98
MOTA	1230	CG	PHE	3074	40.856	33.807	7.177	1.00 66.10
ATOM	1231	CD1		3074	41.644	33.982	6.046	1.00 63.80
ATOM	1232		PHE	3074	40.564	32.516	7.599	1.00 64.01
ATOM	1233		PHE	3074	42.132	32.894	5.344	1.00 62.95
ATOM	1234	CE2	PHE	3074	41.048	31.416	6.902	1.00 63.38
ATOM	1235	cz	PHE	3074	41.835	31.605	5.770	1.00 62.84
ATOM	1236	C	PHE	3074	39.072	37.099	7.807	1.00 75.86
ATOM	1237	Ō	PHE	3074	40.025	37.573	8.402	1.00 76.77
	1238	N	PHE	3075	37.938	37.762	7.649	1.00 79.19
ATOM	1239	CA	PHE	3075	37.837	39.121	8.160	1.00 81.80
MOTA		CB	PHE	3075	38.337	40.083	7.076	1.00 81.14
ATOM	1240		PHE	3075	38.520	41.496	7.545	1.00 82.07
MOTA	1241	CG CD1		3075	37.426	42.285	7.884	1.00 82.38
ATOM	1242				39.795	42.046	7.632	1.00 82.50
MOTA	1243	CD2	PHE	3075	37.599	43.605	8.303	1.00 82.10
ATOM	1244		PHE	3075	39.980	43.363	8.050	1.00 82.46
ATOM	1245	CE2	PHE	3075	38.880	44.142	8.384	1.00 82.30
ATOM	1246	CZ	PHE	3075	36.421	39.487	8.583	1.00 83.61
MOTA	1247	C	PHE	3075		39.380	7.783	1.00 84.62
ATOM	1248	0	PHE	3075	35.498		9.840	1.00 85.79
MOTA	1249	N	ASN	3076	36.247	39.896 40.315	10.326	1.00 88.27
MOTA	1250	CA	ASN	3076	34.929		11.759	1.00 88.95
ATOM	1251	CB	ASN	3076	34.658	39.831	11.735	1.00 90.39
MOTA	1252	CG	ASN	3076	34.790	38.318	10.972	1.00 90.81
ATOM	1253		ASN	3076	34.567	37.556	13.126	1.00 89.65
ATOM	1254	ND2		3076	35.136	37.879		1.00 89.79
MOTA	1255	С	ASN	3076	34.975	41.835	10.311	1.00 89.79
ATOM	1256	0	ASN	3076	35.696	42.442	11.103	1.00 83.33
MOTA	1257	N	GLU	3077	34.216	42.449	9.407	1.00 91.37
ATOM	1258	CA	GLU	3077	34.212	43.908	9.282	1.00 94.22
ATOM	1259	CB	GLU	3077	33.446	44.329	8.022	1.00 94.22
MOTA	1260	CG	GLU	3077	34.105	45.481	7.265	
MOTA	1261	CD	GLU	3077	33.461	45.746	5.911	1.00 97.56
MOTA	1262		. GLU	3077	32.344	46.315	5.875	1.00 97.85
MOTA	1263	OE2	GLU	3077	34.074	45.374	4.883	1.00 98.21 1.00 92.56
MOTA	1264	C	GLU	3077	33.640	44.621	10.507	
MOTA	1265	0	GLU	3077	33.924	45.799	10.740	1.00 92.27
MOTA	1266	N	ASP	3078	32.838	43.903	11.286	1.00 92.66
MOTA	1267	CA	ASP	3078	32.244	44.464	12.495	1.00 92.45
ATOM	1268	CB	ASP	3078	30.821	43.928	12.689	1.00 93.93
MOTA	1269	CG	ASP	3078	30.670		12.230	1.00 95.05
MOTA	1270	OD:	LASP	3078	31.468		12.662	1.00 95.30
MOTA	1271	OD:	2 ASP	3078	29.741		11.433	1.00 95.42
MOTA	1272	С	ASP	3078	33.098		13.728	1.00 90.82
MOTA	1273	0	ASP	3078	32.580		14.817	1.00 91.05
MOTA	1274	N	THR	3079	34.412		13.528	1.00 88.60
MOTA	1275	CA	THR	3079	35.400		14.577	1.00 85.91
MOTA	1276	CB	THR	3079	35.634	42.438	14.831	1.00 86.06
MOTA	1277		1 THR	3079	35.737	41.758	13.578	1.00 86.97
MOTA	1278		2 THR	3079	34.502	41.836	15.645	
ATOM	1279		THR	3079	36.692	44.562	14.064	
ATOM	1280		THR	3079	37.597	44.882	14.836	
ATOM	1281		LYS	3080	36.752	44.739	12.746	
ATOM	1282			3080	37.910		12.076	1.00 78.54
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ATOM	1283	СВ	LYS	3080	38.124	46.773	12.523	1.00	80.40
MOTA	1284	CG	LYS	3080	36.954	47.708	12.211	1.00	83.06
ATOM	1285	CD	LYS	3080	36.693	47.855	10.706		84.70
MOTA	1286	CE	LYS	3080	37.713	48.773	10.032	1.00	85.87
MOTA	1287	NZ	LYS	3080	39.120	48.279	10.151	1.00	86.76
MOTA	1288	C	LYS	3080	39.167	44.501	12.349	1.00	75.69
MOTA	1289	0	LYS	3080	40.226	45.054	12.666	1.00	75.56
MOTA	1290	N	GLU	3081	39.042	43.182	12.220		71.38
MOTA	1291	CA	GLU	3081	40.169	42.287	12.449		67.00
MOTA	1292	CB	GLU	3081	40.416	42.119	13.945		67.39
MOTA	1293	CG	GLU	3081	39.229	41.560	14.680		68.11
MOTA	1294	CD	GLU	3081	39.500	41.397	16.149		68.74
ATOM	1295		GLU	3081	40.111	42.316	16.735	1.00	
ATOM	1296	OE2	GLU	3081	39.092	40.358	16.716		69.19
MOTA	1297	С	GLU	3081	39.976	40.913	11.836		62.81
MOTA	1298	0	GLU	3081	38.862	40.396	11.758	1.00	
MOTA	1299	N	TYR	3082	41.087	40.325	11.414	1.00	
ATOM	1300	CA	TYR	3082	41.075	39.001	10.822		53.31
MOTA	1301	CB	TYR	3082	42.320	38.787	9.956		53.67
MOTA	1302	CG	TYR	3082	42.552	39.828	8.882		55.65
MOTA	1303	CD1		3082	43.092	41.078	9.193		56.05
ATOM	1304	CE1	TYR	3082	43.360	42.012	8.195		56.86
MOTA	1305	CD2	TYR	3082	42.277	39.544	7.544		56.15
ATOM	1306	CE2	TYR	3082	42.540	40.467	6.542		57.39
MOTA	1307	CZ	TYR	3082	43.083	41.697	6.870		58.16
ATOM	1308	ОН	TYR	3082	43.363	42.603	5.868		49.35
ATOM	1309	C	TYR	3082	41.069	37.963	11.940		
ATOM	1310	0	TYR	3082	41.746	38.124	12.947		46.65 45.87
ATOM	1311	N	PHE	3083	40.291	36.907	11.770		
MOTA	1312	CA	PHE	3083	40.262	35.869	12.772		44.35
ATOM	1313	CB	PHE	3083	38.866	35.669	13.361		
ATOM	1314	CG	PHE	3083	38.795	34.510	14.324		43.31 42.99
ATOM ATOM	1315 1316	CD1 CD2	PHE PHE	3083 3083	39.402 38.208	34.594 33.302	15.581 13.943		41.85
ATOM	1317	CE1	PHE	3083	39.429	33.302	16.438		41.77
ATOM	1317	CE2	PHE	3083	38.234	32.201	14.793		43.29
ATOM	1319	CZ	PHE	3083	38.846	32.295	16.042		41.19
ATOM	1320	C	PHE	3083	40.735	34.550	12.194		43.56
ATOM	1321	0	PHE	3083	40.275	34.118	11.142		42.73
ATOM	1322	N	PHE	3084	41.650	33.912	12.913		44.36
ATOM	1323	CA	PHE	3084	42.204	32.632	12.510		45.31
ATOM	1324	CB	PHE	3084	43.712	32.761	12.272		45.85
ATOM	1325	CG	PHE	3084	44.068		11.093		45.39
ATOM	1326		PHE	3084	44.080		9.810		46.46
ATOM	1327		PHE	3084	44.377	34.961	11.261		46.34
ATOM	1328		PHE	3084	44.399	33.873	8.699		46.96
ATOM	1329		PHE	3084	44.696	35.766	10.165		47.11
ATOM	1330	CZ	PHE	3084	44.708	35.223	8.880		46.93
ATOM	1331	C	PHE	3084	41.937	31.607	13.599		45.45
ATOM	1332	0	PHE	3084	42.408	31.731	14.728		46.89
ATOM	1333	N	ASP	3085	41.159	30.597	13.253		46.12
ATOM	1334	CA	ASP	3085	40.838	29.538	14.182		46.55
ATOM	1335	СВ	ASP	3085	39.510	28.903	13.757		46.98
ATOM	1336	CG	ASP	3085	38.906	28.014	14.828		50.33
ATOM	1337		ASP	3085	39.216	28.203	16.027		51.77
ATOM	1338		ASP	3085	38.100	27.129	14.468		50.66
MOTA	1339	С	ASP	3085	42.005	28.542	14.118		46.38
MOTA	1340	0	ASP	3085	41.823	27.371	13.793		45.77
ATOM	1341	N	ARG	3086	43.211	29.035	14.412	1.00	46.71
MOTA	1342	CA	ARG	3086	44.434	28.222	14.391	1.00	46.02
ATOM	1343	CB	ARG	3086	45.403	28.700	13.303		47.42
ATOM	1344	CG	ARG	3086	44.824	28.968	11.919	1.00	50.24

ATOM	1345	CD	ARG		44	.512	27.716	11.14	0 1.00	49.79
ATOM	1346	NE	ARG		45	.453	26.635	11.39	9 1.00	52.94
ATOM	1347	CZ	ARG	3086	45	.558	25.550	10.63	7 1.00	53.34
ATOM	1348	NH:		3086	44	.783	25.427	9.57	0 1.00	52.58
ATOM	1349	NH:		3086	46	.412	24.580	10.95	0 1.00	52.70
MOTA	1350	C	ARG	3086	45	.173	28.326	15.72	5 1.00	44.60
MOTA	1351	0	ARG	3086		.773	29.075	16.62	2 1.00	42.80
MOTA	1352	N	ASP	3087		.278	27.593	15.83	9 1.00	43.86
ATOM	1353	CA	ASP	3087		.070	27.616	17.05	5 1.00	43.09
ATOM	1354	CB	ASP	3087		.112	26.514	17.04		43.16
ATOM	1355	CG	ASP	3087		.927	26.497	18.32		46.90
MOTA	1356	OD:		3087	48	.337	26.364	19.41	5 1.00	47.95
ATOM	1357	OD2		3087		.158	26.629	18.23		49.46
ATOM	1358	C	ASP	3087		.774	28.955	17.27		42.73
ATOM	1359	0	ASP	3087		.552	29.414	16.43		42.10
ATOM ATOM	1360	И	PRO	3088		.524	29.593	18.420		42.37
ATOM	1361	CD	PRO	3088		.575	29.210	19.482		41.20
ATOM	1362 1363	CA CB	PRO	3088		.159	30.885	18.699		42.63
ATOM	1364	CG	PRO	3088		.355	31.416	19.883		40.59
ATOM	1365	C	PRO PRO	3088 3088		.907	30.184	20.584		41.50
ATOM	1366	0	PRO	3088		.656	30.819	18.991		44.39
ATOM	1367	N	GLU	3089		.380	31.780	18.752		43.38
ATOM	1368	CA	GLU	3089		.118 .521	29.674	19.488		47.08
ATOM	1369	CB	GLU	3089		.702	29.505	19.844		48.63
ATOM	1370	CG	GLU	3089		.702	28.230 28.347	20.671		51.24
ATOM	1371	CD	GLU	3089		.704	29.664	21.732 22.509		55.39
ATOM	1372	OE1		3089		472	30.600	22.179		59.25 60.78
MOTA	1373	OE2		3089		855	29.770	23.426		
ATOM	1374	C	GLU	3089		471	29.479	18.656		61.26 48.75
ATOM	1375	0	GLU	3089		501	30.160	18.661		48.87
MOTA	1376	N	VAL	3090		133	28.692	17.641		48.59
MOTA	1377	CA	VAL	3090		973	28.586	16.453		48.38
MOTA	1378	CB	VAL	3090		529	27.407	15.543		49.09
MOTA	1379	CG1	VAL	3090		586	27.129	14.491		48.48
MOTA	1380	CG2	VAL	3090		294	26.166	16.374		51.46
ATOM	1381	С	VAL	3090	52.	929	29.875	15.639		46.95
MOTA	1382	0	VAL	3090		910	30.235	14.997		47.89
ATOM	1383	N	PHE	3091	51.	799	30.576	15.676		45.22
ATOM	1384	CA	PHE	3091	51.	654	31.817	14.923		44.04
MOTA	1385	CB	PHE	3091	50.	275	32.419	15.165		43.36
MOTA	1386	CG	PHE	3091	49.	953	33.564	14.257	1.00	41.81
ATOM	1387		PHE	3091		561	33.335	12.948	1.00	42.43
ATOM	1388		PHE	3091		074	34.874	14.700		41.51
ATOM	1389		PHE	3091		293	34.391	12.085		41.49
ATOM	1390		PHE	3091		811	35.937	13.845		41.73
ATOM ATOM	1391	CZ	PHE	3091		418	35.693	12.532		41.20
ATOM	1392	C	PHE	3091		727	32.849	15.276		43.79
ATOM	1393 1394	O N	PHE	3091		081	33.684	14.453		42.27
ATOM	1394	N CA	ARG ARG	3092 3092		241	32.796	16.500		44.74
ATOM	1396	CB	ARG	3092		278	33.732	16.919		47.11
ATOM	1397	CG	ARG	3092		640	33.503	18.387		49.30
ATOM	1398	CD	ARG	3092		475 318	34.611	18.994		54.03
ATOM	1399	NE	ARG	3092		350	34.108	20.165		58.04
ATOM	1400	CZ	ARG	3092		180	33.170	19.721		62.76
ATOM	1401	NH1	ARG	3092		107	32.515 32.692	20.529 21.838		65.25
ATOM	1402		ARG	3092	59.		31.668	20.028		66.11 66.67
MOTA	1403	С	ARG	3092	55.		33.580	16.033		46.80
ATOM	1404	0	ARG	3092	56.		34.569	15.688		44.23
MOTA	1405	N	CYS	3093	55.		32.343	15.667		47.16
ATOM	1406	CA	CYS	3093	57.		32,082	14.799		47.19
					•		,		00	

ATOM	1407	CB	CYS	3093	57.360	30.583	14.718	1.00	49.42
MOTA	1408	SG	CYS	3093	57.969	29.858	16.239	1.00	57.76
ATOM	1409	С	CYS	3093	56.736	32.561	13.394	1.00	45.39
MOTA	1410	0	CYS	3093	57.615	33.058	12.693	1.00	44.16
ATOM	1411	N	VAL	3094	55.489	32.382	12.975	1.00	43.91
ATOM	1412	CA	VAL	3094	55.089	32.810	11.652	1.00	44.14
ATOM	1413	CB	VAL	3094	53.630	32.411	11.348	1.00	44.88
ATOM	1414	CG1		3094	53.154	33.092	10.072	1.00	44.16
ATOM	1415	CG2		3094	53.532	30.897	11.200	1.00	45.26
ATOM	1416	C	VAL	3094	55.228	34.315	11.561		43.88
ATOM	1417	0	VAL	3094	55.849	34.833	10.637		43.99
ATOM	1418	N	LEU	3095	54.667	35.015	12.539		44.44
ATOM	1419	CA	LEU	3095	54.717	36.465	12.552		45.68
ATOM		CB	LEU	3095	53.836	37.009	13.676		46.88
	1420						13.575		48.11
ATOM	1421	CG	LEU	3095	53.532	38.501			48.21
ATOM	1422	CD1		3095	52.804	38.748	12.233		
ATOM	1423	CD2		3095	52.682	38.961	14.732		48.53
ATOM	1424	C	LEU	3095	56.138	37.005	12.689		46.37
MOTA	1425	0	LEU	3095	56.486	38.009	12.064		45.37
ATOM	1426	N	ASN	3096	56.957	36.343	13.501		47.42
ATOM	1427	CA	ASN	3096	58.327	36.778	13.679		49.62
MOTA	1428	CB	ASN	3096	59.011	35.985	14.793		51.80
MOTA	1429	CG	ASN	3096	58.616	36.476	16.186		55.06
MOTA	1430	OD1	ASN	3096	58.524	37.683	16.426	1.00	56.24
MOTA	1431	ND2	ASN	3096	58.396	35.543	17.112	1.00	55.43
MOTA	1432	C	ASN	3096	59.089	36.619	12.370	1.00	50.35
MOTA	1433	0	ASN	3096	60.112	37.275	12.150	1.00	48.90
ATOM	1434	N	PHE	3097	58.580	35.750	11.500	1.00	50.77
ATOM	1435	CA	PHE	3097	59.200	35.521	10.203	1.00	51.36
MOTA	1436	CB	PHE	3097	58.546	34.344	9.492	1.00	51.66
MOTA	1437	CG	PHE	3097	58.848	34.301	8.030	1.00	52.48
ATOM	1438	CD1	PHE	3097	60.135	34.024	7.581	1.00	53.14
ATOM	1439	CD2	PHE	3097	57.865	34.607	7.097	1.00	53.22
ATOM	1440		PHE	3097	60.441	34.056	6.217	1.00	52.88
ATOM	1441	CE2	PHE	3097	58.159	34.642	5.735		53.47
ATOM	1442	cz	PHE	3097	59.451	34.366	5.297		52.54
ATOM	1443	C	PHE	3097	59.079	36.768	9.328		52.13
ATOM	1444	0	PHE	3097	60.075	37.251	8.784		53.47
ATOM	1445	N	TYR	3098	57.863	37.289	9.183		52.12
ATOM	1446	CA	TYR	3098	57.653	38.491	8.379		52.08
ATOM	1447	CB	TYR	3098	56.186	38.918	8.391		50.46
ATOM	1448	CG	TYR	3098	55.298	37.986	7.626		49.91
ATOM	1449	CD1	TYR	3098	54.863	36.790	8.189		49.56
ATOM	1450		TYR	3098	54.086	35.897	7.458		49.86
ATOM	1451		TYR	3098	54.935	38.269	6.315		49.66
ATOM	1452		TYR	3098	54.163	37.384	5.575		48.85
ATOM	1453	CZ	TYR	3098	53.742	36.203	6.150		49.32
				3098					49.77
ATOM	1454	ОН	TYR		52.978	35.330	5.419		
MOTA	1455	С	TYR	3098	58.490	39.671	8.844		52.55
ATOM	1456	0	TYR	3098	59.014	40.424	8.026		53.71
ATOM	1457	И	ARG	3099	58.618	39.840	10.152		53.00
ATOM	1458	CA	ARG	3099	59.384	40.964	10.657		54.84
ATOM	1459	CB	ARG	3099	58,905	41.349	12.066		55.79
ATOM	1460	CG	ARG	3099	58.883	40.218	13.067		59.67
MOTA	1461	CD	ARG	3099	58,645	40.747	14.474		61.78
ATOM	1462	NE	ARG	3099	57.358	41.428	14.594		64.51
ATOM	1463	CZ	ARG	3099	56.273	40.899	15.158		66.36
ATOM	1464		ARG	3099	56.315	39.672	15.665		67.02
ATOM	1465		ARG	3099	55.141	41.595	15.213		66.44
ATOM	1466	C	ARG	3099	60.902	40.792	10.651		54.56
ATOM	1467	0	ARG	3099	61.623	41.777	10.754		55.79
ATOM	1468	N	THR	3100	61.399	39.566	10.518	1.00	53.95

ATOM	1469	CA	THR	3100	62.848	39.370	10.520	1.00	53.09
MOTA	1470	CB	THR	3100	63.335	38.599	11.774		51.84
MOTA	1471	OG1	THR	3100	62.923	37.227	11.694		49.92
MOTA	1472	CG2	THR	3100	62.779	39.238	13.039		50.73
MOTA	1473	C	THR	3100	63.385	38.637	9.303		53.71
ATOM	1474	0	THR	3100	64.592	38.636	9.070		54.31
MOTA	1475	N	GLY	3101	62.499	38.014	8.532		53.79
MOTA	1476	CA C	GLY GLY	3101	62.941 63.396	37.286 35.885	7.358 7.711		54.19 55.26
MOTA MOTA	1477 1478	0	GLY	3101 3101	63.422	34.997	6.858		56.41
ATOM	1478	N	LYS	3102	63.757	35.681	8.973		55.38
ATOM	1480	CA	LYS	3102	64.206	34.371	9.430		56.28
ATOM	1481	СВ	LYS	3102	65.328	34.506	10.464		57.82
ATOM	1482	CG	LYS	3102	66.380	35.541	10.141		61.24
ATOM	1483	CD	LYS	3102	67.598	35.383	11.054		63.57
ATOM	1484	CE	LYS	3102	68.274	34.022	10.840	1.00	64.84
MOTA	1485	NZ	LYS	3102	69.500	33.820	11.678	1.00	65.31
MOTA	1486	С	LYS	3102	63.059	33.588	10.069	1.00	55.11
MOTA	1487	0	LYS	3102	62.295	34.122	10.883	1.00	56.00
MOTA	1488	N	LEU	3103	62.939	32.320	9.696		52.74
MOTA	1489	CA	LEU	3103	61.912	31.462	10.265		49.68
MOTA	1490	CB	LEU	3103	61.223	30.651	9.170		48.84
ATOM	1491	CG	LEU	3103	60.113	29.706	9.623		48.93
MOTA	1492		LEU	3103	59.033	30.489	10.351		48.04
ATOM	1493		LEU	3103	59.539	28.989	8.415		48.66
ATOM	1494	C	LEU	3103	62.608	30.529	11.242		47.72
ATOM	1495	0	LEU	3103	63.492	29.776	10.860		47.45
ATOM	1496	N	HIS	3104	62.216	30.597	12.507		46.69
ATOM	1497	CA	HIS	3104	62.809	29.754	13.541		45.97
ATOM	1498	CB	HIS	3104	63.043	30.565	14.818		43.83
ATOM	1499	CG	HIS	3104 3104	63.875	31.789 33.053	14.602 14.259		44.77
ATOM	1500		HIS		63.528				44.77
ATOM ATOM	1501 1502		HIS HIS	3104 3104	65.252 65.719	31.767 32.960	14.629 14.307		43.46
MOTA	1502		HIS	3104	64.692	33.758	14.307		45.15
ATOM	1504	C	HIS	3104	61.919	28.561	13.866		46.31
ATOM	1505	0	HIS	3104	60.742	28.509	13.501		46.64
ATOM	1506	N	TYR	3105	62.500	27.587	14.546		46.18
ATOM	1507	CA	TYR	3105	61.759	26.417	14.954		46.56
ATOM	1508	CB	TYR	3105	62.324	25.150	14.292		45.78
ATOM	1509	CG	TYR	3105	61.739	23.883	14.873	1.00	45.87
ATOM	1510	CD1	TYR	3105	60.385	23.574	14.711	1.00	44.93
MOTA	1511	CE1	TYR	3105	59.823	22.459	15.333	1.00	45.93
MOTA	1512	CD2	TYR	3105	62.520	23.037			45.93
MOTA	1513	CE2	TYR	3105	61.971	21.924	16.286		46.26
MOTA	1514	CZ	TYR	3105	60.626	21.642	16.122		46.23
MOTA	1515	OH	TYR	3105	60.092	20.550	16.758		46.63
MOTA	1516	C	TYR	3105	61.874	26.324	16.472		47.27
MOTA	1517	0	TYR	3105	62.959	26.087	17.002		46.80
ATOM	1518	N	PRO	3106	60.762	26.558	17.192		49.34
MOTA	1519	CD	PRO	3106	59.435		16.666		48.71
ATOM	1520	CA	PRO	3106	60.755		18.662		51.47
ATOM ATOM	1521 1522	CB CG	PRO PRO	3106	59,448	27.192	19.031		50.69
ATOM	1523	C	PRO	3106 3106	58.540 60.788	26.811	17.886 19.079		49.49 53.52
ATOM	1523	0	PRO	3106	59.816	25.011 24.275	18.876		52.71
ATOM	1525	N	ARG	3100	61.912	24.273	19.653		55.69
ATOM	1526	CA	ARG	3107	62.097	23.196	20.045		58.82
ATOM	1527	CB	ARG	3107	63.510	23.196	20.045		60.44
ATOM	1528	CG	ARG	3107	63.927	23.979	21.639		63.65
ATOM	1529	CD	ARG	3107	65.398	23.773	21.039		66.63
ATOM	1530	NE	ARG	3107	66.197	23.773	20.725		69.05
				··		23.034	20.725		

ATOM	1531	CZ	ARG	3107	67.	489	23.530	20.653	1.00	71.79
ATOM	1532	NH1	ARG	3107	68.	148	23.137	21.740	1.00	72.53
ATOM	1533	NH2	ARG	3107	68.		23.624	19.492		71.60
MOTA	1534	С	ARG	3107	61.	093	22.565	21.013	1.00	59.70
ATOM	1535	0	ARG	3107	61.	165	21.369	21.284	1.00	59.11
ATOM	1536	N	TYR	3108	60.	155	23.351	21.526	1 00	60.84
MOTA	1537	CA	TYR	3108	59.		22.808	22.441		61.83
ATOM	1538	CB	TYR	3108	58.	805	23.852	23.519	1.00	64.01
MOTA	1539	CG	TYR	3108	58.	207	25.152	22.988	1.00	65.37
ATOM	1540	CD1	TYR	3108	56.		25.192	22.465	1 00	65.69
MOTA	1541	CEl	TYR	3108	56.		26.372	21.945		66.57
ATOM	1542	CD2	TYR	3108	58.	953	26.334	22.981	1.00	66.89
ATOM	1543	CE2	TYR	3108	58.	431	27.520	22.466	1.00	67.01
MOTA	1544	CZ	TYR	3108	57.		27.531	21.947	1 00	67.59
MOTA	1545	ОН	TYR	3108	56.		28.693	21.409		69.05
MOTA	1546	С	TYR	3108	57.	907	22.411	21.651	1.00	61.18
ATOM	1547	0	TYR	3108	56.	951	21.869	22.203	1.00	61.08
ATOM	1548	N	GLU	3109	57.		22.677	20.350		59.72
MOTA	1549	CA	GLU	3109	56.	774	22.384	19.509		58.79
MOTA	1550	CB	GLU	3109	56.	529	23.556	18.544	1.00	61.40
ATOM	1551	CG	GLU	3109	55.	103	23.626	18.012	1.00	65.76
ATOM	1552	CD	GLU	3109	54.		23.686	19.135		69.33
ATOM	1553	OE1	GLU	3109	53.	924	24.760	19.772		69.51
ATOM	1554	OE2	GLŲ	3109	53.	416	22.648	19.386	1.00	70.74
ATOM	1555	С	GLU	3109	56.	903	21.088	18.718	1.00	56.03
ATOM	1556	0	GLU	3109	57.		20.727	18.280	1 00	54.80
ATOM	1557	N	CYS	3110	55.		20.394	18.548		53.04
MOTA	1558	CA	CYS	3110	55.	747	19.155	17.787		50.39
MOTA	1559	CB	CYS	3110	54.	399	18.454	17.941	1.00	51.10
ATOM	1560	SG	CYS	3110	54.	127	17.142	16.708	1.00	54.99
ATOM	1561	С	CYS	3110	55.		19.509	16.325	1 00	49.39
ATOM	1562	0	CYS	3110	55.		20.415	15.781		47.15
ATOM	1563	N	ILE	3111	56.	860	18.779	15.689	1.00	47.33
MOTA	1564	CA	ILE	3111	57.	188	19.021	14.300	1.00	47.33
ATOM	1565	CB	ILE	3111	58.	297	18.020	13.826	1.00	48.14
ATOM	1566	CG2	ILE	3111	57.		16.657	13.496		46.55
		CG1								
ATOM	1567		ILE	3111		048	18.608	12.637		48.78
ATOM	1568	CD1	ILE	3111	59.	994	19.700	13.034	1.00	49.24
ATOM	1569	С	ILE	3111	55.	951	18.963	13.386	1.00	46.81
ATOM	1570	0	ILE	3111	55.	887	19.684	12.393	1.00	46.21
ATOM	1571	N	SER	3112		969	18.125	13.720		45.72
ATOM	1572	CA	SER	3112		758	18.028	12.898		46.37
MOTA	1573	CB	SER	3112	52.	934	16.800	13.269		46.72
ATOM	1574	OG	SER	3112	53.	602	15.623	12.875	1.00	53.75
ATOM	1575	C	SER	3112	52.	877	19.256	13.037	1.00	45.62
ATOM	1576	0	SER	3112		366	19.773	12.048		44.28
ATOM	1577		ALA			686	19.705	14.274		45.23
		И		3113						
ATOM	1578	CA	ALA	3113	51.	875	20.886	14.538	1.00	46.33
MOTA	1579	CB	ALA	3113	51.	871	21.193	16.030	1.00	45.97
ATOM	1580	C	ALA	3113	52.	484	22.043	13.765	1.00	46.02
ATOM	1581	0	ALA	3113		785	22.777	13.063		46.57
MOTA	1582	N	TYR	3114		804	22.167	13.888		46.07
MOTA	1583	CA	TYR	3114	54.	582	23.208	13.227	1.00	46.10
MOTA	1584	CB	TYR	3114	56.	062	23.021	13.586	1.00	46.01
ATOM	1585	CG	TYR	3114	56.	992	24.111	13.106	1.00	45.54
ATOM	1586		TYR	3114		947	25.391	13.663		45.29
ATOM	1587		TYR	3114		826	26.396	13.236		44.44
ATOM	1588		TYR	3114		939	23.858	12.103		44.75
ATOM	1589	CE2	TYR	3114	58.	822	24.853	11.667	1.00	44.48
MOTA	1590	cz	TYR	3114		759	26.119	12.238		45.27
ATOM	1591	ОН	TYR	3114		617	27.103	11.814		44.61
ATOM	1592	C	TYR	3114						47.73
MION	1334		IIK	J114	54.	373	23.178	11.707	1.00	31.13

ATOM	1593	0	TYR	3114	53.977	24.186	11.117	1.00	47.32
MOTA	1594	N	ASP -	3115	54.627	22.030	11.077	1.00	49.45
MOTA	1595	CA	ASP	3115	54.448	21.895	9.632		51.72
MOTA	1596	CB	ASP	3115	54.830	20.494	9.149		53.37
ATOM	1597	CG	ASP	3115	56.332	20.287	9.060		56.61
MOTA	1598	OD1	ASP	3115	57.045	21.223	8.628		58.15
MOTA	1599	OD2	ASP	3115	56.800	19.177	9.405		59.12
ATOM ATOM	1600 1601	C 0	ASP ASP	3115 3115	53.009	22.178	9.216		53.14
ATOM	1601	N	ASP	3115	52.768 52.052	22.805	8.182		52.72
ATOM	1602	CA	ASP	3116	50.639	21.706 21.934	10.010 9.708		54.93 57.32
ATOM	1604	CB	ASP	3116	49.751	21.367	10.820		60.27
ATOM	1605	CG	ASP	3116	49.459	19.885	10.642		63.66
ATOM	1606		ASP	3116	50.307	19.170	10.053		65.56
ATOM	1607		ASP	3116	48.382	19.435	11.101		66.00
MOTA	1608	С	ASP	3116	50.367	23.425	9.557		57.36
MOTA	1609	0	ASP	3116	49.748	23.857	8.582	1.00	57.33
MOTA	1610	N	GLU	3117	50.836	24.212	10.521	1.00	56.04
MOTA	1611	CA	GLU	3117	50.628	25.648	10.465	1.00	55.48
MOTA	1612	CB	GLU	3117	51.037	26.298	11.791	1.00	55.62
MOTA	1613	CG	GLU	3117	50.352	25.700	13.028	1.00	56.24
MOTA	1614	CD	GLU	3117	48.820	25.699	12.951		55.63
ATOM	1615	OE1	GLU	3117	48.208	26.770	12.728		53.72
ATOM	1616	OE2	GLU	3117	48.227	24.613	13.131		56.38
ATOM ATOM	1617	C 0	GLU	3117	51.394	26.287	9.301		54.77
ATOM	1618 1619	N	GLU LEU	3117 3118	50.850	27.133	8.585		54.46
ATOM	1620	CA	LEU	3118	52.649 53.420	25.894 26.467	9.100 8.004	1.00	54.04 53.36
ATOM	1621	CB	LEU	3118	54.806	25.838	7.924		52.67
ATOM	1622	· CG	LEU	3118	55.791	26.343	8.971		53.72
ATOM	1623		LEU	3118	57.199	25.868	8.619	1.00	
ATOM	1624	CD2	LEU	3118	55.733	27.868	9.014		53.76
ATOM	1625	C	LEU	3118	52.685	26.253	6.693		53.28
MOTA	1626	0	LEU	3118	52.626	27.145	5.840		52.48
MOTA	1627	N	ALA	3119	52.121	25.061	6.539	1.00	53.26
ATOM	1628	CA	ALA	3119	51.371	24.725	5.336	1.00	53.56
ATOM	1629	CB	ALA	3119	50.859	23.284	5.423	1.00	51.54
MOTA	1630	C	ALA	3119	50.199	25.697	5.170		53.67
ATOM	1631	0	ALA	3119	50.029	26.302	4.111		53.70
ATOM	1632	И	PHE	3120	49.404	25.844	6.228		54.16
ATOM	1633	CA	PHE	3120	48.246	26.729	6.213		55.47
ATOM	1634	CB	PHE	3120	47.565	26.731	7.580		55.34
ATOM ATOM	1635 1636	CG CD1	PHE PHE	3120 3120	46.409 45.176	27.687	7.684		55.52
ATOM	1637		PHE	3120	46.548	27.377 28.899	7.116 8.362		55.25 55.87
ATOM	1638		PHE	3120	44.097	28.256	7.222		54.86
ATOM	1639		PHE	3120	45.475	29.790	8.475		55.38
ATOM	1640	CZ	PHE	3120	44.247	29.465	7.903		55.48
MOTA	1641	С	PHE	3120	48.619	28.156	5.846		56.46
ATOM	1642	0	PHE	3120	47.909	28.816	5.084		57.39
MOTA	1643	N	TYR	3121	49.735	28.633	6.384	1.00	57.45
MOTA	1644	CA	TYR	3121	50.166	29.997	6.119	1.00	58.57
MOTA	1645	CB	TYR	3121	51.000	30.518	7.291	1.00	58.75
ATOM	1646	CG	TYR	3121	50.165	30.731	8.531	1.00	58.11
MOTA	1647		TYR	3121	49.173	31.712	8.562	1.00	58.27
ATOM	1648	CE1		3121	48.355	31.876	9.677		58.11
ATOM	1649	CD2		3121	50.324	29.918	9.651		57.55
ATOM	1650	CE2	TYR	3121	49.510	30.074	10.770		57.74
ATOM	1651	CZ	TYR	3121	48.529	31.053	10.776		57.37
ATOM	1652	ОН	TYR	3121	47.722	31.204	11.878		58.12
ATOM ATOM	1653 1654	C	TYR TYR	3121	50.928	30.144	4.822		59.41
ALOM	1034	9	IIK	3121	51.324	31.248	4.454	1.00	59.83

ATOM	1655	N	GLY	3122	51.120	29.022	4.132	1.00 60.47
MOTA	1656	CA	GLY	3122	51.822	29.031	2.864	1.00 60.54
MOTA	1657	C	GLY	3122	53.292	29.366	2.981	1.00 61.66
MOTA	1658	0	GLY	3122	53.875	29.937	2.061	1.00 61.80
ATOM	1659	N	ILE	3123	53.89 7	29.027	4.113	1.00 63.04
MOTA	1660	CA	ILE	3123	55.316	29.295	4.313	1.00 64.42
MOTA	1661	CB	ILE	3123	55.602	29.829	5.729	1.00 63.77
MOTA	1662	CG2	ILE	3123	57.085	30.027	5.922	1.00 63.34
MOTA	1663	CG1	ILE	3123	54.881	31.157	5.935	1.00 64.03
MOTA	1664	CD1	ILE	3123	54.997	31.702	7.350	1.00 65.09
MOTA	1665	С	ILE	3123	56.043	27.979	4.111	1.00 65.61
MOTA	1666	0	ILE	3123	55.635	26.954	4.655	1.00 65.16
ATOM	1667	N	LEU	3124	57.106	28.014	3.314	1.00 67.28
ATOM	1668	CA	LEU	3124	57.890	26.821	3.015	1.00 69.17
ATOM	1669	CB	LEU	3124	58.481	26.924	1.607	1.00 71.19
MOTA	1670	CG	LEU	3124	57.543	26.707	0.409	1.00 72.78
MOTA	1671	CD1	LEU	3124	56.410	27.733	0.406	1.00 72.91
ATOM	1672	CD2	LEU	3124	58.360	26.806	-0.878	1.00 73.00
MOTA	1673	С	LEU	3124	58.999	26.622	4.036	1.00 69.68
ATOM	1674	0	LEU	3124	59.824	27.508	4.251	1.00 69.85
MOTA	1675	N	PRO	3125	59.033	25.446	4.681	1.00 70.17
MOTA	1676	CD	PRO	3125	58.093	24.330	4.492	1.00 70.18
MOTA	1677	CA	PRO	3125	60.038	25.113	5.696	1.00 71.16
MOTA	1678	CB	PRO	3125	59.593	23.732	6.184	1.00 71.46
MOTA	1679	CG	PRO	3125	58.896	23.158	4.991	1.00 70.98
MOTA	1680	С	PRO	3125	61.492	25.142	5.234	1.00 72.28
MOTA	1681	0	PRO	3125	62.400	24.843	6.015	1.00 72.88
MOTA	1682	N	GLU	3126	61.713	25.497	3.971	1.00 73.08
MOTA	1683	CA	GLU	3126	63.069	25.594	3.433	1.00 73.97
ATOM	1684	CB	GLU	3126	63.076	25.414	1.912	1.00 75.54
ATOM	1685	CG	GLU	3126	62.553	24.072	1.440	1.00 78.21
MOTA	1686	CD	GLU	3126	61.049	23.952	1.594	1.00 80.43
MOTA	1687	OE1	GLU	3126	60.325	24.745	0.952	1.00 80.92
MOTA	1688	OE2	GLU	3126	60.590	23.071	2.354	1.00 81.78
MOTA	1689	С	GLU	3126	63.570	26.988	3.779	1.00 73.58
ATOM	1690	0	GLU	3126	64.733	27.327	3.563	1.00 73.67
ATOM	1691	N	ILE	3127	62.661	27.788	4.321	1.00 72.64
ATOM	1692	CA	ILE	3127	62.948	29.153	4.720	1.00 71.86
ATOM	1693	CB	ILE	3127	61.651	29.990	4.686	1.00 73.07
ATOM	1694	CG2	ILE	3127	61.918	31.399	5.173	1.00 73.41
MOTA	1695	CG1	ILE	3127	61.096	30.002	3.255	1.00 74.43
MOTA	1696	CD1	ILE	3127	59.706	30.624	3.104	1.00 74.78
MOTA	1697	С	ILE	3127	63.531	29.160	6.130	1.00 70.29
MOTA	1698	0	ILE	3127	63.972		6.627	1.00 70.38
MOTA	1699	N	ILE	3128	63.543		6.771	1.00 68.41
ATOM	1700	CA	ILE	3128	64.063		8.126	1.00 67.43
MOTA	1701	CB	ILE	3128	63.889	26.462	8.688	1.00 66.91
MOTA	1702	CG2	! ILE	3128	64.609	26.319	10.031	1.00 64.80
MOTA	1703	CGI	ILE	3128	62.394		8.842	1.00 66.70
ATOM	1704	CDI	LILE	3128	62.075		9.621	1.00 66.89
MOTA	1705	C	ILE	3128	65.522		8.232	1.00 67.00
ATOM	1706	0	ILE	3128	66.404		7.608	1.00 66.29
MOTA	1707	N	GLY	3129	65.760		9.031	1.00 65.88
MOTA	1708	CA	GLY	3129	67.105		9.224	1.00 65.71
MOTA	1709	C	GLY	3129	68.118		9.531	
MOTA	1710	0	GLY	3129	67.786			
ATOM	1711	N	ASP	3130	69.363			
MOTA	1712	CA	ASP	3130	70.459			
ATOM	1713		ASP	3130	71.758			
ATOM	1714		ASP		72.926			
MOTA	1715		1 ASP		72.881			
ATOM	1716	OD:	2 ASP	3130	73.890	27.945	9.601	1.00 76.17

MOTA	1717	С	ASP	3130	70	.631	27.82	8 10	.855	1.00	62.82
ATOM	1718	0	ASP	3130		.170	26.80		.273	1.00	62.46
ATOM	1719	N	CYS	3131		.161	28.78		.654		59.80
		CA	CYS	3131		.244	28.71		.112		56.43
ATOM	1720										
MOTA	1721	CB	CYS	3131		.860	30.06		.719		55.87
MOTA	1722	SG	CYS	3131		.311	30.75		.033		52.85
MOTA	1723	С	CYS	3131	69	.322	27.64	3 13	.672	1.00	54.87
MOTA	1724	0	CYS	3131	69	.598	27.06	2 14	.719	1.00	54.95
ATOM	1725	N	CYS	3132	68	.225	27.38	8 12	.969	1.00	53.29
ATOM	1726	CA	CYS	3132		.253	26.41	0 13	.423	1.00	53.58
ATOM	1727	СВ	CYS	3132		.865	27.05		.523		52.31
ATOM	1728	SG	CYS	3132		.610	28.01		.042		48.71
ATOM	1729	C	CYS	3132		.150	25.16		.569		54.86
ATOM	1730	0	CYS	3132		.567	24.18		.008		54.76
MOTA	1731	N	TYR	3133	67	.708	25.20	4 11	.360		56.30
ATOM	1732	CA	TYR	3133		.622	24.05	8 10	.461	1.00	58.75
ATOM	1733	CB	TYR	3133	68	.405	24.30	8 9	.170	1.00	61.17
MOTA	1734	CG	TYR	3133	68	.196	23.19	7 8	.168	1.00	63.91
ATOM	1735	CD1	TYR	3133	66	.918	22.92	2 7	.666	1.00	65.09
ATOM	1736	CE1	TYR	3133		.684	21.82		.825	1.00	65.60
ATOM	1737	CD2	TYR	3133		.246	22.35		.797		64.85
		CE2	TYR	3133		.026	21.25		.956		66.42
ATOM	1738										
ATOM	1739	CZ	TYR	3133		.740	20.99		.477		66.85
MOTA	1740	ОН	TYR	3133		.504	19.88		.686		67.41
MOTA	1741	С	TYR	3133	68	.068	22.72		.058		58.97
MOTA	1742	0	TYR	3133	67	.335	21.73	5 10	.997	1.00	57.30
MOTA	1743	N	GLU	3134	69	.265	22.68	4 11	.630	1.00	60.27
MOTA	1744	CA	GLU	3134	69	.768	21.44	8 12	.212	1.00	62.20
ATOM	1745	CB	GLU	3134	71	.067	21.71	1 12	.976	1.00	64.50
ATOM	1746	CG	GLU	3134		.260	20.88		.486		69.85
ATOM	1747	CD	GLU	3134		.075	19.38		.691		73.16
ATOM	1748	OE1		3134		.866	18.95		.850		74.03
		OE1	GLU								74.51
ATOM	1749			3134		.144	18.63		.689		
ATOM	1750	C	GLU	3134		.739	20.79		.131		62.07
ATOM	1751	0	GLU	3134		.473	19.59	5 13	.007		62.03
ATOM	1752	N	GLU	3135	68	.156	21.56	8 14	.042		61.95
MOTA	1753	CA	GLU	3135	67	.153	21.04	5 14	.973	1.00	61.21
ATOM	1754	CB	GLU	3135	66	808	22.08	8 16	.041	1.00	64.56
ATOM	1755	CG	GLU	3135	67	.245	21.69	2 17	.446	1.00	68.98
ATOM	1756	CD	GLU	3135	66	.554	20.43	2 17	.941	1.00	71.87
MOTA	1757	OE1	GLU	3135	65	.322	20.47	0 18	.161		73.44
ATOM	1758		GLU	3135		.243	19.40		.107		73.71
ATOM	1759	C	GLU	3135		.876			.259		58.70
ATOM	1760	0	GLU	3135		.290	19.58		.593		57.24
MOTA	1761	N	TYR	3136		.439			.288		55.83
MOTA	1762	CA	TYR	3136		.249	21.06		.533		55.90
MOTA	1763	CB	TYR	3136		.953	22.14		.494		54.77
ATOM	1764	CG	TYR	3136	62	.755	21.85	0 10	.633	1.00	54.87
MOTA	1765	CD1	TYR	3136	61	.469	21.94	3 11	147	1.00	56.18
MOTA	1766	CE1	TYR	3136	60	.352	21.63	2 10	.369	1.00	57.52
ATOM	1767	CD2	TYR	3136	62	.907	21.43	8 9	.313	1.00	55.91
ATOM	1768	CE2	TYR	3136		798	21.12	0 8	.519	1.00	57.16
MOTA	1769	CZ	TYR	3136		.523	21.22		.055		59.03
ATOM	1770	ОН	TYR	3136		.415	20.90		.292		60.74
ATOM	1771	C	TYR	3136		.488	19.71		.825		56.32
ATOM	1772	0	TYR	3136		.613	18.84		802		54.54
ATOM	1773	N	LYS	3137		.689	19.57		258		57.06
MOTA	1774	CA	LYS	3137		.115	18.37		.526		57.85
MOTA	1775	CB	LYS	3137	67	.538	18.60	0 9	.998	1.00	58.71
ATOM	1776	CG	LYS	3137	68	1.145	17.47	8 9	.160	1.00	59.40
MOTA	1777	CD	LYS	3137	69	.284	18.03	0 8	3.293	1.00	61.81
ATOM	1778	CE	LYS	3137		.124	16.94		7.618		61.24
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ATOM	1779	NZ	LYS	3137		71.056	16.293	8.580	1.00	62.70
MOTA	1780	C	LYS	3137		66.046	17.103	11.377	1.00	58.31
ATOM	1781	0	LYS							
				3137		65.539	16.072	10.932	1.00	58.65
ATOM	1782	N	ASP	3138		66.549	17.176	12.600	1.00	57.87
ATOM	1783	CA	ASP	3138		66.520	16.031	13.493	1 00	59.25
ATOM										
	1784	CB	ASP	3138		67.363	16.329	14.728		60.76
MOTA	1785	CG	ASP	3138		68.841	16.433	14.406	1.00	63.70
ATOM	1786	OD1	ASP	3138		69.176	16.812	13.260	1.00	65.41
ATOM	1787	OD2		3138						
						69.670	16.148	15.296	1.00	64.28
MOTA	1788	С	ASP	3138		65.097	15.681	13.910	1.00	59.52
ATOM	1789	0	ASP	3138		64.712	14.513	13.908	1.00	60.68
ATOM	1790	N	ARG	3139		64.321	16.699			59.49
								14.268		
ATOM	1791	CA	ARG	3139		62.940	16.513	14.697	1.00	59.65
MOTA	1792	CB	ARG	3139		62.325	17.857	15.125	1.00	61.85
ATOM	1793	CG	ARG	3139		63.089	18.598	16.225		65.43
ATOM	1794	CD	ARG							
				3139		62.886	17, 981	17.607		68.42
MOTA	1795	NE	ARG	3139		62.219	16.691	17.527	1.00	72.10
MOTA	1796	CZ	ARG	3139		61.973	15.903	18.572	1.00	74.52
ATOM	1797	NH1		3139		62.344	16.276	19.796		74.57
ATOM	1798	NH2		3139		61.348	14.735	18.394	1.00	75.76
ATOM	1799	C	ARG	3139		62.104	15.914	13.573	1.00	58.60
ATOM	1800	0	ARG	3139		61.262	15.047	13.811		58.40
MOTA	1801	N	LYS	3140		62.338	16.392	12.355	1.00	57.64
ATOM	1802	CA	LYS	3140		61.623	15.920	11.177	1.00	57.00
MOTA	1803	CB	LYS	3140		61.967	16.804	9.974	1 00	57.12
ATOM	1804	CG	LYS	3140						
						60.754	17.385	9.252		57.83
MOTA	1805	CD	LYS	3140		59.940	16.305	8.546	1.00	58.84
ATOM	1806	CE	LYS	3140		58.637	16.863	7.975	1.00	58.97
ATOM	1807	NZ	LYS	3140		58.852	17.964	6.987		59.21
MOTA	1808	С	LYS	3140		62.001	14.467	10.884	1.00	57.10
MOTA	1809	0	LYS	3140		61.140	13.629	10.613	1.00	56.83
MOTA	1810	N	ARG	3141		63.293	14.171	10.945	1 00	56.92
ATOM	1811	CA								
			ARG	3141		63.772	12.824	10.694		57.58
MOTA	1812	CB	ARG	3141		65.301	12.791	10.712	1.00	57.10
MOTA	1813	CG	ARG	3141		65.875	11,392	10.598		56.29
MOTA	1814	CD	ARG	3141						
						67.387	11.395	10.511		56.00
ATOM	1815	NE	ARG	3141		68.024	12.029	11.663	1.00	55.05
MOTA	1816	CZ	ARG	3141		68.733	13.154	11.596	1.00	54.50
ATOM	1817	NH1	ARG	3141		68.895	13.776	10.429		54.03
ATOM										
	1818	NH2		3141		69.286	13.655	12.692	1.00	52.56
MOTA	1819	С	ARG	3141		63.222	11.849	11.728	1.00	58.54
MOTA	1820	0	ARG	3141		62.750	10.768	11.374	1 00	58.10
MOTA	1821	N	GLU	3142						
							12.231	13.001		59.45
MOTA	1822	CA	GLU	3142		62.796	11.394	14.094	1.00	60.83
MOTA	1823	CB	GLU	3142		62.955	12.142	15.419	1.00	63.74
MOTA	1824	CG	GLU	3142		63.134	11.260	16.651		68.58
ATOM	1825	CD								
			GLU	3142		64.609	10.999	16.983		71.70
MOTA	1826	OE1	GLU	3142		64.887	10.305	17.992	1.00	71.17
ATOM	1827	OE2	GLU	3142		65.487	11.495	16.236		72.94
ATOM	1828	C	GLU	3142						
						61.312	11.075	13.868		59.87
MOTA	1829	0	GLU	3142		60.836	9.967	14.133	1.00	58.83
ATOM	1830	N	ASN	3143		60.587	12.070	13.373	1.00	59.11
ATOM	1831	CA	ASN	3143		59.165	11.938	13.103		58.19
ATOM					•					
	1832	CB	ASN	3143		58.577	13.312	12.746	1.00	57.40
MOTA	1833	CG	ASN	3143		57.121	13.239	12.309	1.00	56.74
ATOM	1834	OD1	ASN	3143		56.817	13.202	11.116		56.39
MOTA	1835		ASN							
				3143		56.214	13.215	13.277		56.74
ATOM	1836	С	ASN	3143		58.944	10.957	11.966	1.00	57.95
MOTA	1837	0	ASN	3143		58.048	10.120	12.031	1.00	57.67
ATOM	1838	N	LEU	3144		59.769				
							11.068	10.927		59.10
ATOM	1839	CA	LEU	3144		59.677	10.202	9.754	1.00	60.10
ATOM	1840	CB	LEU	3144		60.658	10.671	8.689	1.00	57.82

ATOM	1841	CG	LEU	3144	60.169	11.916	7.963	1.00	56.94
MOTA	1842	CD1	LEU	3144	61.265	12.497	7.093	1.00	55.86
MOTA	1843	CD2	LEU	3144	58.951	11.535	7.133	1.00	56.29
MOTA	1844	С	LEU	3144	59.911	8.724	10.042	1.00	62.45
MOTA	1845	0	LEU	3144	59.388	7.864	9.338	1.00	62.61
MOTA	1846	N	GLU	3145	60.685	8.429	11.076	1.00	65.46
MOTA	1847	CA	GLU	3145	60.971	7.048	11.434	1.00	69.86
MOTA	1848	CB	GLU	3145	62.356	6.954	12.065	1.00	69.16
MOTA	1849	CG	GLU	3145	63.445	7.542	11.198	1.00	70.50
MOTA	1850	CD	GLU	3145	64.762	7.669	11.935	1.00	72.52
MOTA	1851	OE1	GLU	3145	64.817	8.410	12.946	1.00	73.03
ATOM	1852	OE2	GLU	3145	65.746	7.028	11.505	1.00	73.82
MOTA	1853	C	GLU	3145	59.934	6.468	12.400	1.00	72.44
MOTA	1854	0	GLU	3145	60.116	5.361	12.924	1.00	73.12
MOTA	1855	N	HIS	3146	58.846	7.199	12.636	1.00	75.49
MOTA	1856	CA	HIS	3146	57.805	6.711	13.554	1.00	79.39
MOTA	1857	CB	HIS	3146	56.910	7.856	14.068		80.38
MOTA	1858	CG	HIS	3146	57.494	8.629	15.216		81.30
MOTA	1859	CD2	HIS	3146	58.583	8.397	15.995		82.09
MOTA	1860		HIS	3146	56.959	9.832	15.649		81.56
MOTA	1861		HIS	3146	57.698	10.311	16.638		81.80
MOTA	1862	NE2	HIS	3146	58.691	9.462	16.869		82.53
MOTA	1863	С	HIS	3146	56.905	5.677	12.876		81.53
MOTA	1864	0	HIS	3146	57.124	5.291	11.708		81.98
ATOM	1865	N	HIS	3147	55.893	5.245	13.633	1.00	83.97
ATOM	1866	CA	HIS	3147	54.894	4.269	13.190		85.96
ATOM	1867	CB	HIS	3147	55.471	2.842	13.257		86.98
MOTA	1868	CG	HIS	3147	56.310	2.589	14.473	1.00	89.24
MOTA	1869	CD2	HIS	3147	57.510	1.966	14.618	1.00	89.74
MOTA	1870		HIS	3147	55.934	3.003	15.741	1.00	90.24
MOTA	1871		HIS	3147	56.869	2.645	16.613	1.00	90.34
MOTA	1872	NE2	HIS	3147	57.836	2.014	15.959	1.00	90.16
MOTA	1873	C	HIS	3147	53.679	4.394	14.131	1.00	86.45
MOTA	1874	OCT	HIS	3147	53.817	5.141	15.147	1.00	86.65
ATOM	1875	OCT	HIS	3147	52.618	3.752	13.857	1.00	86.22
MOTA	1906	ZN+2	ZN2	3300	66.728	30.110	14.687	1.00	56.72
End									

Figure 6

MGAVMGTFSSLQTKQRRPSKDKIEDDLEMTMVCHRPEGLEQLEAQTNFTKRELQVLYRG FKNECPSGVVNEETFKQIYAQFFPHGDASTYAHYLFNAFDTTQTGSVKFEDFVTALSILLRG TVHEKLRWTFNLYDINKDGYINKEEMMDIVKAIYDMMGKYTYPVLKEDTPRQHVDVFFQK MDKNKDGIVTLDEFLESCQEDDNIMRSLQLFQNVMVEHHHHHH

Figure 7

MLAPADKNKRQDELIVLNVSGRRFQTWRTTLERYPDTLLGST EKEFFFNEDTKEYFFDRDPEVFRCVLNFYRTGKLHYPRYECIS AYDDELAFYGILPEIIGDCCYEEYKDRKRENLEHHHHHH